



PA AIM MBS & CPE

ACR MBS & CPE



山东瑞丰高分子材料股份有限公司



SHANDONG RUIFENG CHEMICAL CO, LTD.

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董事长寄语 CHAIRMAN'S MESSAGE

经过20年的发展,公司产品从单一到多样化,规模从数百吨到十几万吨,市场由国内成功拓展到国外, 已成为全球知名的PVC助剂供应商。公司始终以客户为中心,用高质量的产品满足客户的需求,同时坚持科 技创新,因为我们相信创新是企业的生命,是企业的立足之本。让我们携手共进,共铸辉煌!

After 20 years of development, from a single product to multiple products, from hundreds of tons to nearly one hundred thousand tons, from domestic success to global reach, the company has grown to a world class producer of the additives for the Rigid Vinyl Industry. Our success has been accomplished by paying utmost attention to quality and customer focus. Quality is derived from our passion to Research and Development and constant strive for the innovation through science and technology. Innovation is the life of enterprise, innovation is the foundation of enterprise, innovation is the future of the enterprise. Let's share the progress by building a better tomorrow and let's grow together!

公司于2011年7月在深圳证券交易所上市,股票名称: 瑞丰高材,股票代码: 300243。 In July 2011, the company was listed on the GEM board of Shenzhen Stock Exchange, stock code 300243.



公司简介 INTRODUCTION

山东瑞丰高分子材料股份有限公司创建于1994年、属国家级高新技术企业、注册商标为"鲁山"。公司于2011年7月在深圳 证券交易所上市,股票代码: 300243。

公司主要从事PVC助剂的研发、制造和销售,主导产品为: 丙烯酸酯类抗冲改性剂(20000吨/年)、丙烯酸酯类加工助剂(20000吨/年)、抗冲改性剂MBS树脂 (30000吨/年)、PVC发泡调节剂 (20000吨/年)、抗冲改性剂CPE(20000吨/年)和润滑剂 (5000吨/年),产品广泛应用于聚氯乙烯(PVC)门窗、管道、管件、装饰板、发泡板、片材、薄膜、木型等硬制品的加工。

Established in 1994, Shandong Ruifeng Chemical Co., Ltd. is a state-level Hi-tech Enterprise with over 400 total staff and employees. The registered trademark is RUIFENGPOLY®. In July 2011, the company was listed on the GEM board of Shenzhen Stock Exchange, stock code 300243.

The company is mainly in the business of researching & developing, manufacturing and sales of PVC additives. The leading products of the company are: Acrylic Impact Modifiers (20,000 ton/yr), Acrylic Processing Aids (20,000ton/yr), Impact Modifiers MBS resin (30,000 ton/yr), medium and ultra-high MW Acrylic Processing Aids (20,000 ton/yr), Impact Modifier CPE (20,000 ton/yr) and Lubricants (5,000 ton/yr). These products are widely used in rigid products such as PVC window & door profiles, pipes, pipe fittings, sheets, foam boards, WPC, films, etc.

	 1999年被山东省科委认定为高新技术企业
	● 1999年PVC抗冲改性剂MBS树脂被评为国家重点新产品
	● 1999年
	● 2001年通过ISO9001: 2000国际质量体系认证
	● 2001年年产5000吨丙烯酸酯类抗冲改性剂项目被科技部列为国家级"火炬"计划
4	● 2004年無化聚氯乙烯加工改性剂LA50获国家发明专利
	● 2006年公司研究所被山东省科学技术厅认定为山东省PVC助剂工程技术研究中心
	● 2011年被科技部认定为国家火炬计划重点高新技术企业
	● 2011年被山东省经信委认定为山东省PVC助剂企业技术中心
-	2013年公司"鲁山及图"注册商标被国家工商总局认定为中国驰名商标
	 2013年

- In 1999, the company was recognized as a Hi-tech Enterprise by Shandong Science & Technology Committee.
- In 1999, the PVC Impact Modifier MBS Resin was appraised as Major State New Product.
- In 1999, the PVC Processing Aid ACR won Shandong Province Sci-tech Development Third Class Award.
- In 2001, the company passed ISO9001:2000 International Quality System Certification.
- In 2001, the project of 5,000 ton Acrylic Impact Modifier production per year was listed in State Torch Plan.
- In 2004, the CPVC Processing Aid LA50 won state invention patent.
- In 2006, the company was recognized as Shandong Center for PVC Additives Research and Engineering by Department of Science & Technology of Shandong Province.
- In 2011, the company was recognized as "key High-tech Enterprise of National Torch Plan" by the Ministry of Science and Technology of the People 's Republic of China.
- In 2011, the company was recognized as "Provincial Enterprise Technology Center" by Shandong Economic and Information Technology Committee
- By the end of Dec. 2013, the company has won 23 invention patents and 19 utility model patents





产品研发 RESEARCH & DEVELOPMENT











山东省PVC助剂工程技术研究中心简介

Shandong Center for PVC Additives Researching & Engineering

山东省PVC助剂工程技术研究中心是2006年经山东省科技厅批准设立的 省级工程技术研究中心,该中心的前身是始建于2000年10月的瑞丰高分子材 科研究所、规则有博士5名、硕士4名、本科生12名、该中心主要从事PVC助 剂的研究、开发与工艺配方的调试,以及产品性能分析、检测,此外还协助 客户进行生产工艺配方的调弦。该中心自成立以来已自行研制出各类助剂50 多个进行生产工艺配方的调弦。该中心自成立以来已自行研制出各类助剂50 多平,为企业发展打下了坚实的基础。

Shandong Ruifeng Chemical Institute was established in October 2000. Its function is mainly for research and development of PVC additives, testing formulations, and analyzing and testing of product performance. Besides, it also assists customers with the adjustment of formulations. The institute has developed over 50 processing aid products itself since establishment and its world rank performance has built up a solid foundation for the development of the company. In 2006, the Institute was recognized as "Shandong Center for PVC Additives Researching and Engineering" by the Department of Science & Technology of Shandong Province.













质量控制 QUALITY CONTROL

质量是企业的生命,是企业赖以生存和发展的基础。为确保完美的产品品质,公司建立了严格的质量管理体系,并通过了ISO9001:2008质量体系认证。

Quality is the life of the enterprise and the foundation for survival and development. In order to insure perfect quality of the product, the company has set up strict quality control system and passed the ISO9001:2008 quality system certification.







市场开发 MARKETING



服务永无止境…… Service is endless

公司以研究所为依托,建立了专门的售后服务队伍,用科学、用诚信全方位满足客户的需求。 Relying on the R & D institute, the company has set up a special after sales service team to satisfy customer demands with scientific and professional service.



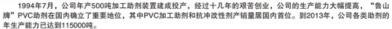












In July 1994, the 500 tons annual processing aid facility was set up and put in production. After a decade of hard work, the company's production capacity has been increased dramatically, its "RUIFENGPOLY" brand PVC additives now holds an important position, and the sales volume of PVC processing aid and impact modifier ranks highest in the domestic market. In 2013, the facility capacity has reached 115,000 tonsiyr.









沂水工厂 YISHUI PA AIM AND CPE PLANT



沂源ACR工厂 YIYUAN PA AND AIM PLANT



沂源MBS工厂 YIYUAN MBS PLANT







产品目录 PRODUCT SUMMARY

种类 GR/	ADE	型号 TYPE	特性 CHARACTERISTICS	用途 APPLICATIONS	DOW	KANEKA	ARKEMA	LG CHEM	BAERLOCHER
	. 14. 44	LB-126	高透明,低折白 HIGH TRANSPARENCY, LOW CREASE WHITENING	薄膜,瓶粒料 FILM, BOTTLE	BTA-707	B-622	C-140	MB-870	
MBS抗冲改性剂		LB-136	透明通用型 GENERAL PURPOSE	薄膜,透明片,瓶粒料 FILM, SHEET, BOTTLE	BTA-717	B-22	C-215A	MB-880	
MBS		LB-236	高冲击,高透明 HIGH IMPACT STRENGTH, GOOD TRANSPARENCY	透明片,管 SHEET, HOSE	BTA-730	B-625/B-628		MB-885	
IMPACT		LB-156	非透明,高冲击 SUPERIOR IMPACT STRENGTH FOR OPAQUE APPLICATION	室内PVC修透明制品 INDOOR PVC PRODUCTS, FITTING, PIPE		B-56		MB-836	
MODIFIER	S	LB-166	非透明,超高冲击 ULTRA-HIGH IMPACT STRENGTH FOR OPAQUE APPLICATION	室内PVC非透明制品 INDOOR PVC PRODUCTS, FITTING, PIPE	BTA-751	B-564	C-323	MB-838	
		AM-81	加工范围宽,性价比高 LARGE PROCESSING WINDOW, SUPERIOR SURFACE FINISH	型材,管材,管件、板材 PROFILE, PIPE, FITTING, SHEET	KM-1	FM-22	D-200	IM-808	E-ST 2D
抗冲ACR		LS-50	优异低温冲击性能 EXCELLENT LOW TEMPERATURE IMPACT	型材,管材,管件,板材 PROFILE, PIPE, FITTING, SHEET	KM-342	FM-50	D-529	IM-812	E-ST 4
IMPACT MOD	DIFIERS	LS-55	复合加工性能的抗冲改性剂 LARGE PROCESSING WINDOW WITH GOOD IMPACT	型材,管材,管件、板材 PROFILE, PIPE, FITTING, SHEET	KM-369/KM-390	FM-55	D-520		
		LS-61	通用型 GENERAL PURPOSE	型材,管材,管件、板材 PROFILE, PIPE, FITTING, SHEET	KM-355P	FM-40	D-320	IM-809	E-ST 3D
洞海型加工电池 LUBRICATING P	PROCESSING AD	LP-175	优异的金属剥离性 GOOD METAL RELEASE PROPERTIES	薄膜,透明片,发泡板,木壁 FILM, SHEET, FOAM BOARD, WPC	K-175	PA-101	P-770		
	低 LP-20 透明型化快 FAST FUSIONS, CLA		透明 型化快 FAST FUSIONS, CLARITY	薄膜,透明片,型材,管材,管件	K-130	PA-20/PA-210		PA-821	
	LOWER	LP-551	透明 型化快 FAST FUSIONS, CLARITY	FILM, SHEET, PROFILE, PIPE, FITTING	K-120N		P-551	PA-910	3FK
	1million	LP-23/LP-21	通用型 GENERAL PURPOSE	型材,管材,管件,板材 SHEET, PROFILE, PIPE, FITTING	K-125	PA-21/PA-310		PA-828	10F
	1	LP-40D	型化快,扭矩离 EXCELLENT FUSION CONTROL, HIGH MELT STRENGTH	型材,管材,管件,板材 SHEET, PROFILE, PIPE, FITTING	K-128		P-533		
丙烯酸酯类		LP-40	通用型 EXCELLENT GENERAL PURPOSE	型材。管材、管件、板材 SHEET, PROFILE, PIPE, FITTING	K-400			PA-930	20F
加工助剂	分子量	LP-40A	型化快,扭矩离 FAST FUSIONS, HIGH MELT STRENGTH	发泡制品 FOAM APPLICATIONS	K-445	PA-40	P-530		40FD
ACRYLIC	Mw	LP-802	超离熔体强度,优异的塑化能力 EXCELLENT MELT FLOW, ULTRA-HIGH MELT STRENGTH	发泡制品,木型 FOAM APPLICATIONS, WPC	K-435	PA-60/PA-610	P-531		
PROCESSING		LP-50	塑化快,高熔体强度 FAST FUSIONS, HIGH MELT STRENGTH	发泡制品 FOAM APPLICATIONS		PA-630			
AIDS		LP-530	超高熔体强度 ULTRA-HIGH MELT STRENGTH	发泡制品,木型 FOAM APPLICATIONS, WPC					
	7million	LP-90	超高熔体强度,型化慢 EXCELLENT MELT FLOW, ULTRA-HIGH MELT STRENGTH	发泡制品、木塑 FOAM APPLICATIONS, WPC	3				
	HIGHER	LP-91	超高熔体强度,型化慢 EXCELLENT MELT FLOW, ULTRA-HIGH MELT STRENGTH	发泡制品,木型 FOAM APPLICATIONS, WPC					
	高	LP-92	超高熔体强度,塑化偿 EXCELLENT MELT FLOW, ULTRA-HIGH MELT STRENGTH	发泡制品,木型 FOAM APPLICATIONS, WPC					
加工助剂		LS-01	型化快、性价比高 GOOD FUSION FLUIDITY	型材,管材,管件 PROFILE, PIPE, FITTING					
PVC PROCESSIN	IG	LS-01A7	优异的型化性能,超高性价比 FAST FUSIONS, GOOD MELT STRENGTH	型材。管材、管件 PROFILE, PIPE, FITTING					
AIDS		LS-400	型化性能离 HIGH MELT STRENGTH	发泡制品 FOAM PROFILE, SHEET			Blendex869	PA-960	
IMPACT MODIF	TER CPE	135A	通用型 GENERAL PURPOSE	不透明型材,管材、管件 OPAQUE PROFILE, PIPE, CONDUIT					
润滑剂		L-60	内/外测滑剂 INTERNAL/EXTERNAL LUBRICANT (LOXIOL G60)	通用型 GENERAL PURPOSE					
PVC LUBRIC	CANTS	L-74	外滑剂 EXTERNAL LUBRICANT (LOXIOL G74)						



MBS IMPACT MODIFIERS LB-126 LB-136 LB-236 (FOR TRANSPARENT)

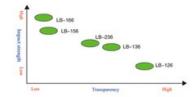
Product Description

MBS series are products with a "core-shelf" structure and excellent toughness performance. The products of this series are the copolymer of methyl methacrylate(M), butadiene(B), styrene(S) and fourth functional monomer. These are synthesized resin specially developed to improve the impact strength and processing performance of PVC products. These are especially suitable to make indoor products, such as PVC films, sheets, pipes, pipe filtings, WPC, bottles and granular materials.

LB-126 LB-136 LB-236 offer PVC products with high impact resistance, high transparency, good processability and reduced gelation

time and less crease-whitening.





Excellent transparency and good impact strength.

LB-126 LB-136 LB-236 are high efficiency MBS

impact modifiers designed for High transparent PVC films, sheets.

Typical Specifications

Appearance	White, free flowing powder	Item	
Powder Density (g/cc)	>0.30	LB-126	High transp
Particle size (on 30 mesh) (%)	≤2.0	LB-136	Good gener
Volatiles (%Max)	≤1.0	LB-236	Transparen

Pur	pose and	Dosage

Item	Properties	Applications	Dosage
LB-126	High transparency, Less crease whitening	Films	6~8
LB-136	Good general performance	Sheets, films	5~7
LB-236	Transparency, High impact strength	Sheets, films	5~7

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LB series should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.









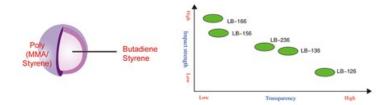


MBS IMPACT MODIFIERS LB-156 LB-166 (FOR OPAQUE)

Product Description

MBS series are products with a "core-shell" structure and excellent toughness performance. The products of this series are the copolymer of methyl methacrylate(M), butadiene(B), styrene(S) and fourth functional monomer. These are synthesized resin specially developed to improve the impact strength and processing performance of PVC products. These are especially suitable to make indoor products, such as PVC films, sheets, pipes, pipe fittings, WPC, bottles and granular materials.

LB-156 LB-166 provide PVC products with superior impact resistance at normal to low temperatures.



LB-156,166 are high efficiency MBS impact modifier designed for opaque applications.

- · Extruded or calendered opaque films and sheets
- · Extruded indoor pipes, and profiles Injection fittings and appliance housings

Benefits

- · Fast fusion
- Excellent impact strength

Typical Specifications

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.30
Particle size (on 30 mesh) (%)	≤2.0
Volatiles (%Max)	≤1.0

rurpose and Dosage		
	LB-156	LB-166
Properties	Ultra-high in	pact strength
Applications	Sheets, pip	es, pipe fittings
Recommended Dosage	4~5	5~6











PVC Impact Modifier AM-603

Product Description

AM-603 is a new high performance acrylic based impact modifier developed by our dedicated technical team of professionals. This new type of impact modifier is a copolymer of HDPE and acrylic acid and has the basic features of CPE, but much higher impact strength than CPE. These attributes, in addition to improved weathering resistance, uniquely makes AM-603 an excellent high performance impact modifier.

Typical Specifications

	AM-603	
Appearance	White, free flowing powder	
Powder Density (g/cc)	>0.40	
Particle size (on 40 mesh) (%Max)	≤2.0	
Volatiles (%Max)	≤1.5	

Applications

- PVC profiles, sheets
- PVC profiles, sneets
 PVC pipes, fittings, cable conduit
- ◆PVC sidings, panels, fences

Benefits

- Higher Tensile strength
- Higher Impact strength
- ◆Lower Cost
 ◆Weatherability

Recommend Formulation

PVC Cable Conduit

Materials	PHR	
PVC	100	
TiO:	1.0-1.2	
Stabilizer	4-5	
Impact Modifier AM-605	8-10	
PE WAX	1.0-1.2	
HSt	1.0-1.2	
PVC Processing Aid LP-40D	0.8-1.0	
CaCO ₁	25-30	

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

AM-503 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.











PVC Impact Modifier AM-81

Product Description

AM-81 is a new high performance acrylic based impact modifier developed by our dedicated technical team of professionals. This new type of impact modifier is a copolymer of HDPE and acrylic acid and has the basic features of CPE, but much higher impact strength than CPE while the glass transition temperature is far lower than CPE. These attributes, in addition to improved weathering resistance, uniquely makes AM-81 an excellent high performance impact modifier.

Typical Specifications

	AM-81
Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.5

Applications

Extrusion: rigid profiles, sheets and pipes
 Injection Moulding: fittings, general moulding

Benefits

Good Weatherability, Good Surface Gloss
 Low-Temperature Impact. High Output

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

AM-81 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.





Acrylic Impact Modifiers LS Series

Product Description

LS series Impact Modifiers are weatherable Acrylic Impact Modifiers used in rigid PVC products. These are "core -shell" structure modifiers, with cross-linked poly butyl acrylic as"core" and grafted methyl methacrylate as "shell". They not only improve impact resistance performance of the product, but also increase the surface gloss of the product, and especially the weatherability of the product. These are especially suitable for outdoor products and broadly used in PVC profiles, sheets, boards, pipes, pipe fittings, etc.

Typical Physical Properties

Index	LS-61	LS-55	LS-50
Appearance		White flowing powder	
Bulk Density (g/cc)	0.40-0.55	0.45-0.56	0.35-0.55
Volatiles Content (%)		≤1.5	
Particle size (40 mesh passing percentage)		≥98%	

Benefits

Compared to CPE and other impact modifiers, AIM LS series products have the following advantages:

- Imparts excellent low-temperature impact resistance. Excellent weatherability.
- Improves product surface gloss greatly. Wide processing range for high speed extrusion.
- Improves impact strength and imparts good rigidity of product.



ro			

Product	Impact property(23°C)	Impact property(-10°C)	Product characteristic
LS-50	*****	*****	Excellent low-temperature impact properties
LS-55	****	*****	Excellent processability
LS-61	*****	*****	Excellent impact properties

Applications

Item		LS-50	LS-61	LS-55
Recommended Dosage	Impact Modifier	4~7	4~7	5~8
Trouble Broads	Processing Aid	0.5~1.0	0.5~0.8	0



PVC Lubricating Processing Aids LP Series

Product Description

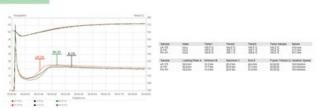
LP series lubricating processing aids are lubricating processing aids with a unique function, suitable for all PVC products such as sheets, film, bottles, profiles, pipes, pipe fittings, foam sheets, etc.

Adding small amount of this product during PVC processing & molding procedure can give excellent metal release properties & better fluid, extend runtime greatly, increase output, and endow better surface gloss to the product. It can be used individually, but more commonly is used together with other processing aids for promoting faution of PVC resin

Typical Specifications

	LP-175
Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.0
Molecular Weight (million)	<1.0
Viscosity (η)(Ubbelohde Viscometer)	0.4-1.0

Performance



Applications

Samples Item	Metal release	Transparency	Tone	Fusion property
Lubricating LP series	Good	Good	Good	Good
Stearic Acid	Fair	Good	Bad	Good
Oxidized PE Wax	Good	Fair	Fair	Bad

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-175 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



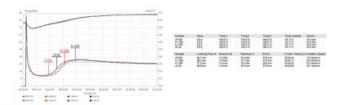
Acrylic Processing Aids LP-551 LP-20

LP-551 LP-20 are processing aid based on a low molecular weight acrylic polymer resin. LP-551 LP-20 can be used in rigid PVC formulations to improve processability and the surface quality.

- Calendering: rigid & semi-rigid films & sheets
- Blow moulding: bottles
- Rigid profiles, sheets, pipes and fittings

- Excellent clarity and surface quality
 Accelerate fusion rate, increase productivity
- Decrease processing temperature

	LP-20	LP-551
Appearance	White, free flo	owing powder
Powder Density (g/cc)	>0.	40
Particle size (on 40 mesh) (%Max)	s2	.0
Volatiles (%Max)	S1	.0
Viscosity (η)(Ubbelohde Viscometer)	2.0-3.0	2.5-3.5



	Properties					Re	ecommende	ed dosage(g	ohr)
	Transparency	Promote fusion	Melt strength	Resispical Property	Dispersivity	Sheets, films	Profiles, pipes	Sheets, WPC	Flexible film
LP-551	*****	**	**	*****	*****	1.0-1.2	1.2-1.5	1.5-2.0	1.2-1.5
LP-20	*****	**	***	****	****	0.8-1.0	1.0-1.2	1.5-2.0	





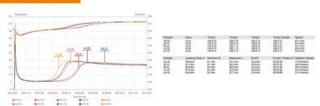
Acrylic Processing Aids LP-21 LP-23

LP-21 LP-23 are general purpose processing aid based on medium-high molecular weight. These are acrylic copolymer that improve the processability and the performances of rigid PVC formulations . LP-21 LP-23 are also extremely cost-effective, requiring only very low addition levels for high-quality results.

PVC profiles, sheets, pipes, fittings PVC sidings, panels, fences

- Wide processing window, higher processing efficiency Faster fusion and high melt elasticity and strength
- Surface smoothness and gloss . Easy metal release

	LP-21	LP-23
Appearance	White, free flo	wing powder
Powder Density (g/cc)	>0.	40
Particle size (on 40 mesh) (%Max)	52	.0
Volatiles (%Max)	51	.5
Viscosity (η)(Ubbelohde Viscometer)	4.5-5.0	4.8-5.3



		Properties				Re	commende	d dosage()	phr)
	Transparency	Promote fusion	Melt strength	Rheological Property	Dispersivity	Sheets	Profiles	Pipes	Fittings
LP-21		**	***	****	****	1.0-1.5	1.0-1.5	1.0-1.8	1.0-1.8
LP-23		***	***	****	****	1.0-1.5	1.0-1.5	1.0-1.8	1.0-1.8

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

LP-21 LP-23 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



Acrylic Processing Aids LP-40 LP-50

Product Description

The addition of PVC processing aids LP-40 LP-50 to rigid PVC formulations are processing aids based on a high molecular weight polymethacrylate resin. LP-40 LP-50 improve the processability and the performances of PVC formulations.

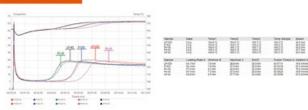
Performance

- Promotes gelation of PVC, Improves hot-melt strength and visco-elasticity, Stabilizes the microcells generated by blowing agents to achieve the low density and high strength of the foam. Increases the surface quality of PVC products.
- Better dispersion of additives into PVC, more homogenous melt of PVC, etc. LP-40. LP-50 have been used in weatherable applications and are widely used in PVC building products.

Typical Specifications

	LP-40	LP-50
Appearance	White, free flo	owing powder
Powder Density (g/cc)	>0	40
Particle size (on 40 mesh) (%Max)	≤2	.0
Volatiles (%Max)	≤1	.0
Viscosity (n)(Ubbelohde Viscometer)	6.0~7.5	8.5~11.0
Molecular Weight (million)	>2.0	>2.0

Rheological Property



Applications

		P	roperties	Recom	mended dosag	e(phr)		
	Metal release	Promote fusion	Melt strength	Melt expansion	Dispersivity	Profiles, pipes	Foam pipes	WPC
LP-50	**	***	***	***	***	1.0-1.2	6.0-10.0	5.0-8.0
LP-40	***	****	****	***	****	0.8-1.0	5.0-8.0	5.0-7.0

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-40 LP-50 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soan and water.



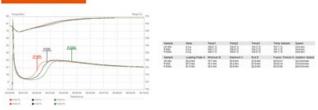
Acrylic Processing Aid LP-40A

Product Description

LP-40A is a high molecular weight acrylic copolymer processing aid for PVC applications including foam, high output extrusion and wood composites. It efficiently improves the quality of cellular products by reducing foam density and maintaining consistent cell structure.

Typical Specifications		Applications
Appearance	White, free flowing powder	◆PVC foam core pipes
Powder Density (g/cc)	>0.40	◆PVC foam profiles
Particle size (on 40 mesh) (%Max)	≤2.0	
Volatiles (%Max)	≤1.5	 PVC foam reinforced composites
Viscosity (η)(Ubbelohde Viscometer)	5.5-7.5	 Wood plastics composites

Rheological Property



Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-40A should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.









PVC Processing Aid LP-40D

Product Description

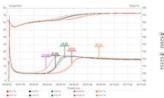
LP-40D is a medium molecular weight acrylic copolymer processing aid for PVC applications including high output extrusion and injection. It efficiently improves the melt elasticity, melt strength and sizing of rigid PVC.

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.5
Viscosity (n)/Libbelobde Viscometer)	60.75

- ◆PVC profiles, sheets PVC pipes, fittings
- PVC sidings, panels, fences

- · Wide processing window, higher processing efficiency
- · Faster fusion and high melt elasticity and strength
- Surface smoothness and gloss. Easy metal release

Rheological Property





Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-40D should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



PVC Processing Aid LP-40E

Product Description

LP-40E is a high molecular weight acrylic copolymer processing aid for PVC applications including foam core pipes, profiles, panels, sheets. It efficiently improves the quality of cellular products by reducing foam density and maintaining consistent cell structure.

Typical Specifications

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.5
Viscosity (η)(Ubbelohde Viscometer)	6.0-7.0

- ◆PVC foam core pipes
- ◆PVC foam profiles
- ◆ PVC foam reinforced composites Wood plastics composites

- ♦ Wide processing window
- · High Melt elasticity and strength Lower Density
- · Good metal release

Rheological Property



Surple:	Water	Tange	Seriel	Tensil	Terry Sarios	Spent
Sample: 1410 pt-400	111	Tange (SEE)	1817	100	1817	2722
Danger	Control Team II	Minimum 2	Marriett	DWE	Funn Timps II	Denmar Speed
2 est	818 NO.	6.1 Ken 5.1 Ken	Million.	ja Propo	20.04.15	(is 7 foremen.)

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-40E should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



PVC Processing Aid LP-20E

Product Description

LP-20E processing aid is an acrylic based general purpose additive to improve the processing characteristics of Rigid PVC. When used in rigid PVC, processing behavior is markedly improved, such as melt strength, faster fusion, surface gloss & without plate out.

Typical Specifications

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.0
Viscosity (n)(Ubbelohde Viscometer)	2.5-3.5

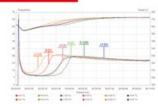
Benefits

- Excellent clarity and surface quality. Accelerate fusion rate, increase productivity
- Decrease processing temperature. Good metal release

Application

- ◆Calendering: rigid & semi-rigid films & sheets
- Blow Moulding: bottles
- ◆Extrusion: rigid profiles, sheets and pipes
- Injection Moulding: fittings, general moulding

Rheological Property





Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-20E should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



PVC Processing Aid LP-40J

Product Description

LP-40J is a high molecular weight acrylic copolymer processing aid for PVC applications including foam core pipes, profiles, panels, sheets. It efficiently improves the quality of cellular products by reducing foam density and maintaining consistent cell structure.

Typical Specification

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.5
Viscosity (η)(Ubbelohde Viscometer)	6.5-8.0

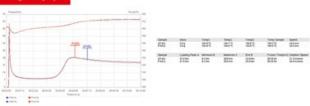
Benefits

- ♦Wide processing window
- High Melt elasticity and strength
- ◆Good metal release

Application

- ◆PVC foam core pipes
- PVC foam profiles, panels, sheets
 PVC foam reinforced composites

Rheological Property



Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LP-40J should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



Ultra-High Molecular Weight Processing Aids LP-530 LP-802

Product Description

LP-530 LP-802 are new ultra-high molecular weight acrylic processing aids for rigid PVC and high quality foam applications. LP-530 LP-802 give the following performance properties-Low torque, faster fusion, high melt strength and expansion.

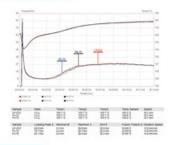
Performance

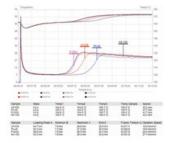
- Improve the processing window and enhance impact strength through faster fusion control for rigid PVC applications. Melt elasticity, melt strength and sizing can be improved through the use of LP-530 LP-802.
- •Its high foaming efficiency enable converters to meet the most demanding requirements in foam core pipes and foam profile formulations using lower addition levels.

Typical Specifications

	LP-530	LP-802
Appearance	White, free flo	wing powder
Powder Density (g/cc)	>0.	40
Particle size (on 40 mesh) (%Max)	≤2	.0
Volatiles (%Max)	≤1	.5
Viscosity (η)(Ubbelohde Viscometer)	9.5-11.5	10.0-12.0
Molecular Weight (million)	>4.0	>4.0

Rheological Property





Applications

	Properties					Re	commende	ed dosage	(phr)	
	Metal release	Promote fusion	Melt strength	Melt expansion	Dispersivity	Reological Property	Profiles, pipes	Foam boards	Foam pipes	WPC
LP-530	**	****	****	****	***	****	0.8-1.0	9.0-11.0	5.0-6.0	8.0-10.0
LP-802	**	***	*****		***	***	0.8-1.0	8.0-10.0	5.0-6.0	8.0-10.0











Ultra-High Molecular Weight Processing Aids LP-90 LP-91 LP-92

Product Description

LP-90 LP-91 LP-92 are new ultra-high molecular weight acrylic processing aid for rigid PVC and high quality foam applications, LP-90 LP-91 LP-92 give the following performance properties-Low torque, faster fusion, high melt strength and expansion.

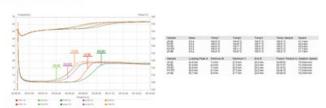
Performance

- Improve the processing window and enhance impact strength through faster fusion control for rigid PVC applications. Melt elasticity, melt strength and sizing can be improved through the use of LP-90 LP-91 LP-92.
- Its high foaming efficiency enable converters to meet the most demanding requirements in foam core pipes and foam profile formulations using lower addition levels.

Typical Specifications

	LP-90	LP-91	LP-92
Appearance		White, free flowing powder	
Powder Density (g/cc)		>0.40	
Particle size (on 40 mesh) (%Max)		≤2.0	
Volatiles (%Max)		≤1.5	
Viscosity (η)(Ubbelohde Viscometer)	10.5-12.5	11.0-13.0	11.5-14.0
Molecular Weight (million)	>5.0	>5.0	>5.0

Rheological Property



Applications

		Properties						commende	ed dosage	(phr)
	Metal release	Promote fusion	Melt strength	Melt expansion	Dispersivity	Restopal Paperly	Profiles, pipes	Foam boards	Foam pipes	WPC
LP-90	**	****	****	****	****	*****	0.6-0.8	9.0-11.0	5.0-6.0	6.0-8.0
LP-91		****	*****	****	***	***	0.5-0.6	9.0-10.0	4.0-5.0	5.0-7.0
LP-92	**	*****	*****	*****	**	**	0.5-0.6	8.0-10.0	4.0-5.0	5.0-7.0



PVC Processing Aids LS Series

Product Description

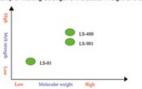
LS series products are Styrene-Acrylonitrile copolymers developed by our company using advanced polymerization technology and drying techniques. These products can improve PVC gelation, fusion fluidity and processing performance and are broadly used in PVC profiles, sheets, pipes, pipe fittings and foam products.

Typical Specifications

	LS-01	LS-901	LS-400
Appearance	Whi	te free flowing por	wder
Powder Density (g/cc)		> 0.4	
Particle size (on 40 mesh) (%Max)		≤2.0	
Viscosity (η)(Ubbelohde Viscometer)	3.0-4.0	9.0-12.0	10.0-13.0
Volatiles (%Max)		≤1.5	
Molecular Weight (million)	>1.0	>3.0	>3.0

Performance

The Relationship of Melting Strength & Molecular Weight of the Product



Applications

Item	LS-01			LS-	400	LS	-901
Application	Pipe	Pipe fitting	Profile, sheet	Foam pipe	Foam sheet	Foam pipe	Foam board
Recommended dosage (phr)	0.5~2.0	2.0~3.0	1.5~2.5	5.0-8.0	7.0~10.0	5.0~8.0	7.0~10.0
Properties	High o	utput Hig	h gloss	Even bubble	s Low density	Fast F	usion

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LS series should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



PVC Processing Aid LS-01A7

Product Description

LS-01A7 is an acrylic based general purpose additive to improve the processing characteristics of Rigid PVC. When used in Rigid PVC, processing behavior is markedly improved, such as melt strength, faster fusion & takeoff, surface gloss & without plateout.

Typical Specifications

Appearance	White, free flowing powder
Powder Density (g/cc)	>0.40
Particle size (on 40 mesh) (%Max)	≤2.0
Volatiles (%Max)	≤1.5
Viscosity (η)(Ubbelohde Viscometer)	2.5-4.0

Applicatio

LS-01A7 is an excellent general purpose processing aid that promotes a wide processing window, providing the flexibility to limit the number of processing aids for Rigid PVC. Such as PVC pipes, fittings, window profiles, fences and so on. The normal addition is 1.0-3.0phr.

Rheological Property



Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

LS-01A7 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.



Chlorinated Polyethylene (CPE135A)

Product Description

Chlorinated polyethylene (CPE) is a high molecular elastomeric material that is chlorinated by HDPE. It is white powder and innocuous. It has excellent anti-flaming, weatherability, lower-temperature flexibility and impact strength, etc. It can be blended with other plastics and rubber, mainly used as PVC impact modifier.

Technical Data

Item	Unit	CPE135A
Chlorine Content	%	35 ±2
Thermal Decomposition Temperature	τ	≥165
Bulk Density	g/cc	≥0.50
Volatiles content	%	<0.5
Particle size (20 mesh passing percentage)	%	≥99
Impurity Particle	50g	≤10
Shore Hardness	,	≤65
Tensile Strength	MPa	≥6.0

Applications

It is widely used in PVC profiles, pipes, pipe fittings, sheets, etc.

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

CPE135A should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.









PVC Lubricant L-60 L-74

Product Description

L-60 is based on neutral dicarboxylic acid ester of saturated fatty alcohols. It is a white or slight yellow flake or free-flowing powder, odourless. It is insoluble in water but soluble in tributyl phosphate (TBP) and trichloromethane. Its melting point is 42-48°C, flash point > 225°C, volatles (96 hour / 90°C) < 1%.

L-74 is based on high molecular, multi-functional fatty acid esters (complex ester). It is white or slight yellow debris or free-flowing powder, odourless. It is insoluble in water but soluble in tributyl phosphate (TBP) and trichloremethane. Its melting point is 48-56°C, flash point > 230°C, volatiles (98 hour / 90°C) < 1%.

Typical Specification

Item	Unit	L-60	L-74
Density	g/cm³(80℃)	0.86-0.89	0.88-0.93
Acid value	mg KOH/g	<10	<12
Iodine value	g l ₂ /100g	<1	<2
Viscosity	mPa.S(80°C)	10-16	40-80
Refractive index	(80℃)	1.453-1.463	1.420-1.470

Performance

L-60 is a lubricant used in rigid PVC, it is highly compatible all-round lubricant also other additives. It is applicable to many kinds of processing conditions. L-60 can promote plasticization of melt, improve impact strength and surface gloss. It can be widely used in transparent sheets, window profiles, sheets and pipes. Dosage is about 0.3-1.2PHR, under special cases the amount can be increased.

L-74 is external lubricant for PVC processing. It is suitable for processing rigid/soft PVC granules, sheets, profiles, shrink film and calendered film. It offers good releasing properties, good efficiency as a mould releasing agent with paste processing and also improves flowability. It can also reduce balancing torque and improve surface gloss. Dosage is about 0.3-0.8PHR (transparent) or 0.3-0.8PHR (opaque), under special cases the amount can be increased.

Standard Packaging

25kg or 20kg bags and 250kg or 500kg jumbo bags.

Storage & Handling

L-60 L-74 should be kept away from flames and other sources of heat. The Product should be stored in cool and ventilated area. Adequate precautions should be taken to keep all dust levels below values that are hazardous to health and safety. In case of eye or skin contacts, eyes should be flushed immediately with fresh water to remove dust particles and affected skin areas should be washed with soap and water.





推荐配方 RECOMMENDED FORMULATIONS

波纹管 PVC Corrugated Pipe

配方 Ingredient	PHR
PVC (K; 65~68)	100
复合铅 Lead Based Complex Stabilizer	4.0-6.0
硬脂酸 Stearic Acid	0.5
批冲改性剂 Acrylic Impact Modifier LS-61	4.0-6.0
加工助剂 PVC Processing Aid LP-40	1.5
钛白粉 Titanium Dioxide	3.0-5.0
碳酸钙 CaCO。	15.0-20.0
PE蜡 PE Wax	0.10-0.30
硬脂酸钙 Calcium Stearate	0.40-0.60

发泡板 PVC Foam Board

配方 Ingredient	PHR
PVC (K: 57)	100
钙/锌稳定剂 Ca/Zn Stabilizer	5.0-5.5
发泡调节剂 PVC Processing Aid LP-530 or LP-90	8.0-12.0
加工助剂 Lubricating Processing Aid LP-175	1.5-2.0
润滑剂 Lubricant L-60	0.6-0.8
润滑剂 Lubricant OA-6	0.5-0.6
PE蜡 PE Wax	0.3-0.4
NC发泡剂 NC Blowing Agent	1.2-1.5
AC发泡剂 AC Blowing Agent	0.6-0.8
碳酸钙 CaCO。	15.0-20.0
图料 Recycle	20.0

发泡管 PVC Foam Pipe

配方 Ingredient	PHR
PVC (K: 57)	100
有机锡 TM-950F	0.6-1.2
发泡调节剂 PVC Processing Aid LP-530	7.0-8.0
加工助剂 Lubricating Processing Aid LP-175	1.0-1.5
加工助剂 PVC Processing Aid LS-01	1.0-1.2
硬脂酸钙 Calcium Stearate	0.8-1.0
氧化聚乙烯蜡 Oxidized PE Wax	0.15-0.20
钛自粉 Titanium Dioxide	1.5-2.0
AC发泡剂 AC Blowing Agent	0.4-0.5
碳酸钙 CaCO。	5.0-8.0
润滑剂 Lubricant 316A	0.2-0.3
回料 Recycle	20.0

PVC型材 Window & Door Profile

配方 Ingredient	PHR
PVC (K: 65~ 68)	100
有机锡 TM-181	0.8-1.2
加工助剂 PVC Processing Aid LP-40	1.0
抗冲改性剂 Acrylic Impact Modifier LS-61	7.0
硬脂酸 Stearic Acid	0.6-0.8
PE蟾 PE Wax	0.8-1.2
氧化聚乙烯蜡 Oxidized PE Wax	0.10-0.20
碳酸钙 CaCO。	8.0-15.0
钛白粉 Titanium Dioxide (Rutile)	4.0-5.0

发泡板 PVC Foam Board

配方 Ingredient	PHR
PVC (K: 57)	100
CPE 135A	6.0
加工助剂 Lubricating Processing Aid LP-175	1.5-2.0
加工助剂 PVC Processing Aid LS-01	1.0-1.5
发饱调节剂 PVC Processing Aid LP-S30 or LP-90	8.0-10.0
AC发泡剂 AC Blowing Agent	0.7-0.8
NC変泡剂 NC Blowing Agent	1.2-1.5
碳酸钙 CaCO;	10.0-20.0
PE館 PE Wax	0.4-0.5
复合铅 Lead Based Complex Stabilizer	4.5-5.0
硬脂酸 Stearic Acid	0.1-0.2
润滑剂 Lubricant L-60	0.6-0.8
润滑剂 Lubricant 316A	0.3-0.4
図料 Recycle	20.0

管材 PVC Pipe

配方 Ingredient	PHR
PVC (K: 65-68)	100
复合铅 Lead Based Complex Stabilizer	2.5-3.0
加工助剂 PVC Processing Aid LP-23	1.0-1.5
抗冲改性剂 Acrylic Impact Modifier LS-61	3.0-5.0
硬脂酸 Stearic Acid	0.2-0.3
PE蜡 PE Wax	0.3-0.4
钛白粉 Titanium Dioxide	1.5-2.0
碳酸钙 CaCO。	10.0-15.0

建筑模板 WPC Formwork

配方 Ingredient	PHR
PVC (K: 58~60)	100
木粉 WOOD	10
CPE 135A	2.0-3.0
加工助剂 Lubricating Processing Aid LP-175	0.5-1.0
AC发泡剂 AC Blowing Agent	0.4-0.5
碳酸钙 CaCOs	15-20
发泡调节剂 PVC Processing Aid LP-90 or LP-530	8.0-10.0
复合铅 Lead Based Complex Stabilizer	4.0-4.5
润滑剂 Lubricant L-60	0.7-0.8
硬脂酸 Stearic Acid	0.5-0.7
NC发泡剂 NC Blowing Agent	1.2-1.3
PE蜡 PE Wax	0.4-0.6
润滑剂 Lubricant OA-6	0.4-0.5

型材 Window & Door Profile

配方 Ingredient	PHR
PVC (K: 65~68)	100
复合铅 Lead Based Complex Stabilizer	5.0
加工助剂 PVC Processing Aid LP-40	0.5 ~ 1.0
抗冲改性剂 Acrylic Impact Modifier LS-61	7.0
硬脂酸 Stearic Acid	0.10 ~ 0.30
氧化聚乙烯蜡 Oxidized PE Wax	0.10 ~ 0.30
碳酸钙 CaCO。	5.0 ~ 10.0
钛自粉 Titanium Dioxide	5.0 ~ 8.0

管件 PVC Pipe Fitting

配方 Ingredient	PHR
PVC (K: 57)	100
钙/锌稳定剂 Ca/Zn Stabilizer	4.0-5.0
加工助剂 PVC Processing Aid LP-23	2.0-3.0
抗冲政性剂 Impact Modifier MBS LB-156	2.0-3.0
硬脂酸 Stearic Acid	0.2-0.3
PE蛸 PE Wax	0.2-0.3
增塑剂 DOP	3.0-4.0
钛自粉 Titanium Dioxide	1.5-2.0
碳酸钙 CaCO。	10-15
颜料 Pigment	Proper amount

PVC扣板 PVC Ceiling Panel

配方 Ingredient	PHR
PVC (K: 57)	100
复合铅 Lead Based Complex Stabilizer	3.0-4.0
加工助剂 PVC Processing Aid LP-23	1.5-2.0
加工助剂 Lubricating Processing Aid LP-175	0.5-1.0
硬脂酸 Stearic Acid	0.4-0.5
PE蜡 PE Wax	0.5-0.6
增塑剂 DOP	3.0-4.0
钛白粉 Titanium Dioxide	4.5-5.0
碳酸钙 CaCO。	60-80
CPE 135A	7.0-8.0

穿线管 PVC Cable Conduit

配方 Ingredient	PHR
PVC (K:57-60)	100
复合铅 Lead Based Complex Stabilizer	4.0
抗冲改性剂 Impact Modifier AM-603	8.0-10.0
加工助剂 PVC Processing Aid LP-40	0.8-1.0
石蜡 Paraffin	0.8-1.0
硬脂酸 Stearic Acid	0.5-0.8
增塑剂 DOP	1.0-2.0
碳酸钙 CaCO。	30-50

透明片 PVC Transparent Sheet

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配方 Ingredient	PHR
PVC (K; 58~60)	100
有机锡 TM-181FS	1.2-1.5
加工助剂 PVC Processing aid LP-20 or LP-551	0.8-1.2
抗冲改性剂 Impact Modifier MBS LB-136	4.0-6.0
润滑剂 PVC Lubricant L-74	0.6-1.0
润滑剂 PVC Lubricant L-60	0.8-1.2
颜料 Pigment	Proper amount

注:以上配方仅供参考、详细情况请与我们的技术人员进行联系。

Remarks: Our company offers complete technical service and assistance. Our Institute and personnel are ready to assist you in any phase of your evaluation, from formulation development to end product testing.





安全与包装 SAFE HANDLING AND PACKAGING

本公司产品必須远离一切明火,生产时粉尘量应达到安全标准。避免物料溉入眼内,否则应立即用清水清洗。皮肤接触到物料,应用肥皂及清水冲洗。

本公司产品密封装干塑料袋,然后装入编织袋或者牛皮纸袋中,并附有产品合格证,包装袋外部注明:商 本公司产品密封装干塑料袋,然后装入编织袋或者4皮纸袋中,并附有产品合格证,包装袋外部注明:商 生产厂名、产品净重、产品报号。每袋25公斤或者20公斤,也可以根据客户的要求使用250公斤或者500公斤 十句法。

本公司产品为无毒、无腐蚀性固体粉末,属非危险品,运输按非危险品处理,应严格防止曝晒、雨淋。 本公司产品建议贮存于室内阴凉通风处,储存温度低于45℃,保存期2年,2年后经性能测定后,如无变化, 107億申用

Eliminate all ignition sources and it will be burn at elevated temperatures.

Eye contact: Wash eyes with water. Consult a physician if irritation Persists. Skin contact: Wash affected skin areas thoroughly with soap and water.

Packed in airproof plastic bag, then in woven bags or kraft paper bags with quality certificate, the outside of bags are marked with brand name, company name, net weight of products, lot No. etc. Packaged in 25 kg or 20kg bags and 250 kg or 500 kg super-sacks.

This material is non-dangerous goods for land, air and marine transportantions. Material can burn, recommended indoor storage with automatic sprinklers. Avoid all ignition sources. The recommended maximum storage temperature for this material is 45°C.

The period of validity:two years.





分子量表 MOLECULAR WEIGHT OF PVC PROCESSING AIDS

