



**海瑞特**

HAIRUITE

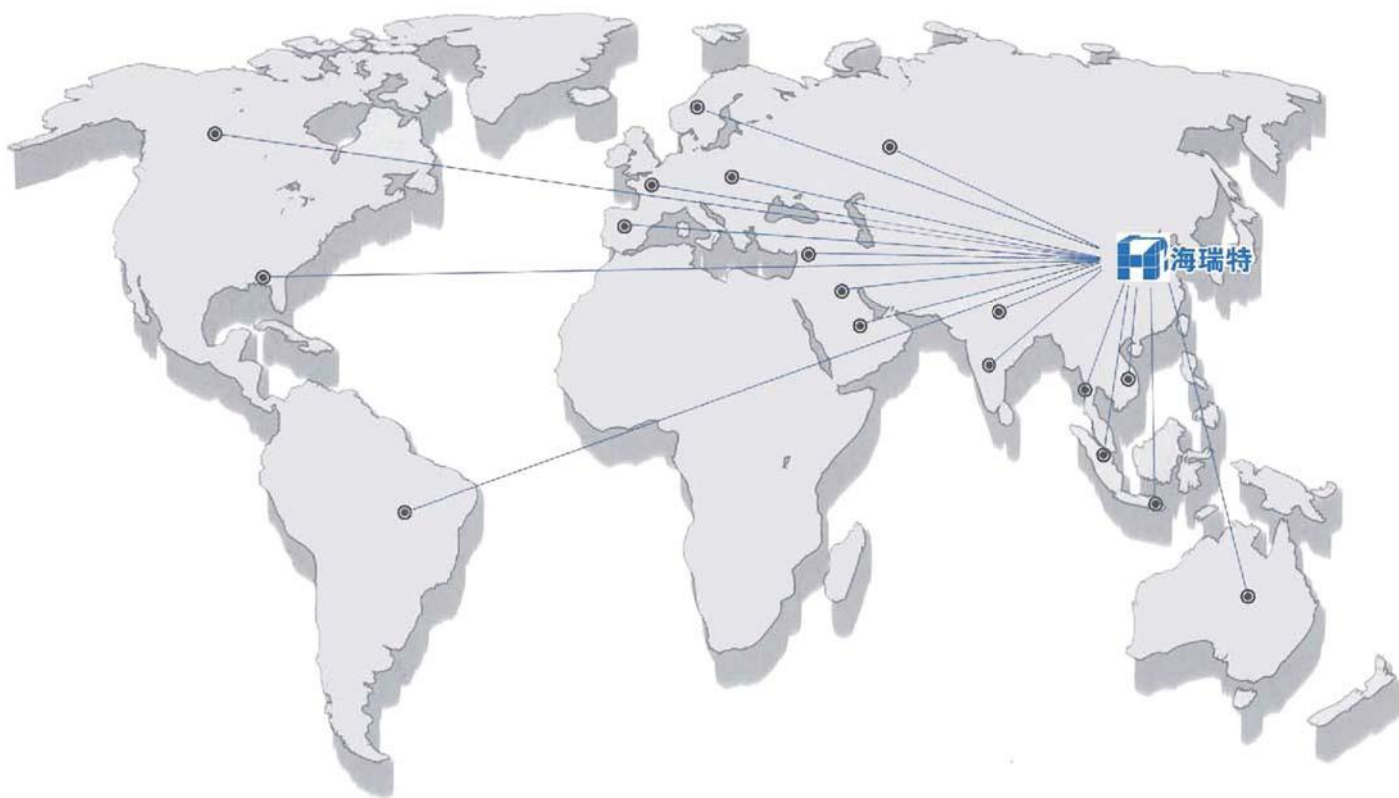
**山东海瑞特新材料有限公司**  
SHANDONG HAIRUITE NEW MATERIALS CO., LTD.

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# 理念营销



# 完美服务





## 企业简介》 CORPORATE INTRODUCES

山东海瑞特新材料有限公司成立于2009年，公司总部位于山东省会城市济南市莱芜区；经过多年的发展，现已有淄博、莱芜两个生产厂区，并在全国设有多个办事处。公司下设青岛海瑞特化工材料有限公司，负责公司销售以及进出口业务。

我公司主要从事PVC助剂丙烯酸酯类抗冲改性剂和加工助剂以及高性能发泡剂，钙锌稳定剂的研发、生产和销售。主导产品有：PVC加工助剂ACR树脂，PVC发泡调节剂，PVC抗冲改性剂AIM树脂，MBS树脂，AMB树脂，PVC发泡剂AC、NC，钙锌稳定剂等，所生产产品广泛应用于聚氯乙烯（PVC）门窗、管道、管件、装饰板、发泡板、片材等软硬质类产品的加工。

本着“客户的需求就是我们的追求”的企业宗旨，我们不断探索、潜心研究、开拓创新，以质量和诚信赢得市场。我公司研发的HRT系列产品畅销国内20多个省市自治区，并远销欧美、中东、东南亚，日韩等多个国家和地区。为了更好的服务于客户，在多处设立了办事处和技术服务站。

“诚信务实、客户至上、质量为本、科技为源”是我们的经营方针，我们引进尖端的科技力量、严格的质量核查检测机制、先进的管理理念，以稳定的产品质量、优良的产品性能、完善的售后服务，来服务客户，铸就双赢。

Shandong Hairuite New Materials Co., LTD was founded in 2009, the company is headquartered in Laiwu District, Jinan, capital city of Shandong Province. After many years of development, now the company has Zibo, Laiwu two production factories, and has multiple offices throughout the country. Qingdao Hairuite Chemical Materials Co., Ltd. is the subsidiary of the company, which is responsible for sales and import and export businesses.

Our company is mainly engaged in research, develop, manufacture and sale of PVC additives acrylic impact modifier, processing aid, high performance foaming agents and CA/ZN stabilizer. Leading products are: PVC processing aid ACR resin, PVC foaming regulator, PVC impact modifier AIM resin, MBS resin, AMB resin, PVC foaming agent AC, NC, CA/ZN stabilizer, etc. The products are widely used in polyvinyl chloride (PVC) production doors and windows, pipes, pipe fittings, decorative board, foam board, sheet and other rigid product processing.

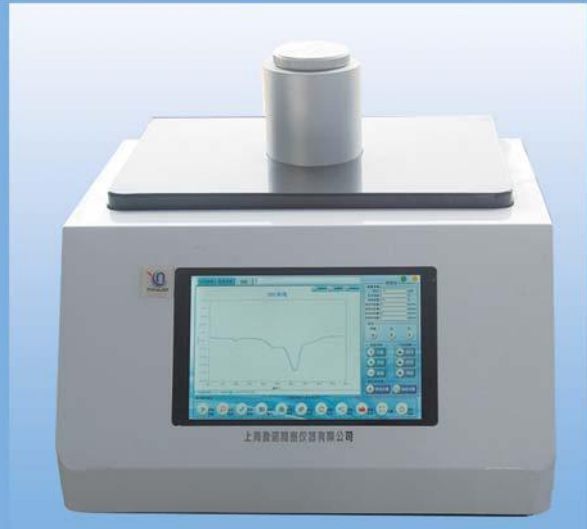
In line with “customer’s demand is our pursuit” of enterprise purpose, we continuously explore, study, innovate, to win the market by quality and integrity. The HRT series acrylic modification agent researched and developed by our company, selling to more than 20 domestic provinces, cities and autonomous regions and exporting to Europe, United State, Middle east, Southeast Asia, Japan, South Korea and other countries. In order to better serve customers, we set up offices and technical service stations in many places.

“Pragmatic integrity, customer first, quality oriented, science and technology as the source” is our business policy. We imported advanced technology, strict quality inspection mechanism and advanced management concept, with stable product quality, excellent product performance, perfect after-sales service, to serve the customer, costing a win-win situation.













## 产品目录》

类别	牌号	产品特点	推荐使用范围	其他公司同类产品
抗冲改性剂 MBS	RH-707	高透明、无折白	透明片材、薄膜	BTA-707、B-513
	RH-717	透明、耐冲击、色相好	透明瓶、粒料、片材	BTA-717、MB-807
	HB-22	透明、耐冲击	透明薄膜、扭结膜、片材	B-22
	RH-126	高透明、耐冲击	高档透明片材、瓶、粒料	MB-872
	RH-136	透明、高冲击	透明片材、瓶、粒料	MB-880、BTA-731
	RH-730	透明、低温强度优良	片材、薄膜	BTA-730、C-132
	RH-56	高冲击	片材、管材、管件（非透明、非户外）	B-56、C-223、BTA-751
	RH-564	超高冲击	片材、管材、管件（非透明、非户外）	B-564、BTA-753、MB-838
丙烯酸脂类抗冲改性剂	H-21	耐候性好、性价比高	异型材、管材、管件	FM-21、KM-334
	H-22	塑化快、光泽好	异型材、管材、管件	FM-22、D-200
	H-50	优异的低温抗冲和拉伸性能	异型材、管材、管件、板材	FM-50
	H-55	优异的加工性、耐冲击	异型材、板材、管件	FM-55、D-520、KM-369
	H-61	通用型抗冲改性剂、耐候性好	异型材、板材、管件	KM-355P、D-320、FM-40、IM-808A
	AMB 系列	良好的抗冲击性、性价比高、可替代 CPE 和 ACR401	异型材、板材、管件	ACM-J9、ACM-J17、AM-600
润滑性加工助剂	HR-175	优异的金属剥离性	片材、薄膜、高档片材	P-770、PA-101、K-175
	HR-102	优异的金属剥离性	片材、薄膜、管材、管件	HL-175、ACR-301
	HR-103	优异的金属剥离性、塑化快	片材、薄膜、管材、管件	P-770
加工改性剂 ACR	HR-551	塑化快、透明度高、流动性好	透明片材、板材、异型材、管材、PVC 软膜	P-551、PA-910
	HR-20	塑化快、透明度高、流动性好	透明片材、薄膜、板材、异型材、管材	PA-20、K-120、3FK
	HR-23	通用性加工助剂	管件、异型材、板材、管材	K125、PA-310、PA-828
	HR-401	综合性能好、通用级	异型材、管材、板材、管件、透明片	
	HR-02	熔体流动性好	异型材、管材、板材、管件	
	HR-400	分子量高、综合性能好	管材、异型材	
	HR-901	分子量高、塑化快	管材、异型材	Blendex 869
	HRT-01	塑化较快、光洁度较好	管材、异型材	
	HRT-02	塑化慢、性价比高	管材、异型材	
发泡调节剂	HR-530	综合性能好，适用于发泡制品	发泡管、发泡板、发泡异型管、木塑	P-530、K-400、PA-930、ZB-530
	HR-40	凝胶速度快、加工范围宽、熔体强度高、制品光泽度高	管件、异型材、发泡制品	PA-40、K-440、20F
	HR-50	塑化快、熔体强度较高	发泡管、发泡板、异型材、木塑	
	HR-80	优异的加工性能	发泡管、发泡板、异型材、木塑	PA-60、K-435
	HR-81	凝胶速度快、加工性能好	发泡管、发泡板、异型材、木塑	
	HR-90	加工范围宽、熔体强度高、制品光泽度高	发泡管、发泡板、木塑	
	HR-902	分子量高、塑化快	发泡管、发泡板、木塑	
	HR-903	分子量高、塑化快	发泡管、发泡板、木塑	
	HR-910	分子量高、熔体强度高	发泡管、发泡板、木塑	
抗冲改性剂	CPE135A	较高的冲击强度	异形材、管材、板材、管件、发泡制品	
润滑剂	H-60	（内、外润滑剂）润滑效率高	透明片、粒料、板材、型材、管材	G-60
	H-74	（外润滑剂）脱模性好、光泽度高	透明片、粒料、收缩膜、压延膜	G-70
稳定剂	Ca/Zn-850	稳定性高	型材专用	
	Ca/Zn-830	稳定、润滑、平衡性好	管材专用	
	Ca/Zn-630	良好稳定性、偶联性	板材专用	
	Ca/Zn-820	良好稳定性、偶联性	发泡制品	
	铅盐复合稳定剂	稳定、润滑、平衡性好	板材、型材、管材、木塑、发泡制品	
发泡剂（黄）	AC-110	发气温度范围宽、发气量大、稳定性好	发泡管、发泡板、木塑、人造革	
发泡剂（白）	NC-220	稳定性好	发泡管、发泡板、木塑、人造革	
抗缩增强剂	MS	降低制品热胀冷缩性	WPC、SPC、地板、地垫、片材	



## PRODUCTS CATALOG

PRODUCTS	GRADES	CHARACTERISTICS	MAJOR APPLICATIONS	COMPARABLE PRODUCTS
IMPACT MODIFIERS MBS	RH-707	Transparency, non crease whitening	Sheets, high grade packing films	BTA-707, B-621, B-513
	RH-717	Transparency, low crease whitening	Sheets, films	BTA-717, MB-870
	RH-730	Good general performance,current grade	Sheets, films, bottles	B-22, BTA-730, C-132
	RH-564	Superior impact strength	sheets, pipes, fittings, etc. (Opaque Indoor)	B-564, BTA-753, MB-838
ACRYLIC IMPACT MODIFIERS	H-50	Excellent low temperature impact strength, weatherable	Window profiles, pipes, pipe fittings, etc.	FM-50
	H-55	Improved processability, High impact .weatherable	Window profiles, sheets, pipe fittings, etc.	FM-55, D-520, KM-369
	H-61	High impact strength weatherable	Window profiles, sheets, fencings, pipes, pipe fittings	KM-355P, D-320, FM-40, IM-808A
	AMB Series	High impact strength, high costperformance	Window profiles, sheets, fencings, pipes, pipe fittings	ACM-J9, ACM-J17, AM-600
LUBRICATING PROCESSING AIDS	HR-175	Good metal release properties	Window profiles, sheets, fencings, pipes, pipe fittings	P-710, PA-101, K-175
	HR-102	Good metal release properties	Sheets, films, pipes,profiles, pipe fittings	HL-175, ACR-301
	HR-103	Fast fusion, good metal release properties	Sheets, films, pipes, profiles, pipe fittings	P-770
ACRYLIC PROCESSING AIDS	HR-551	Fast fusion, excellent clarity, good melt flow	Sheets, films, pipes, profiles, pipe fittings	P-551, PA-910
	HR-20	Fast fusion, excellent clarity, good melt flow	Sheets, pipes, profiles, films	PA-20, K-120, 10F
	HR-23	Good general performance,current grade	Sheets, pipes, profiles,pipe fittings	K-125, PA-828
	HR-101	Good comprehensive performance, general purpose grade	Profiles, pipes, pipe fittings, transparent sheet	
	HR-02	Good melt flowing	Profiles, pipes, pipe fittings	
	HR-400	High molecular weight, high comprehensive performance	Pipe, profile	
	HR-901	High molecular weights Quick plasticization	Pipe, profile	
	HRT-01	Quick plasticization , Better finish	Pipe, profile	
HRT-02	Plasticizing slow, high performance price ratio	Pipe, profile		
FOAM REGULATOR ACR	HR-530	Good general performance,foam application	Sheets. pipes, profiles, foam sheets, foam pipes,WPC	P-530, K-400, PA-930, 20F
	HR-10	Fast fusion, high melt strength, good surface gloss	Sheets. pipes, profiles, foam sheets, foam pipes,WPC	PA-30
	HR-50	Fast fusion, high melt strength, good surface gloss	Sheets, pipes, profiles, foam sheets, foam pipes,WPC	PA-40, K-440
	HR-80	Excellent processability	Sheets, pipes, profiles, foam sheets, foam pipes,WPC	
	HR-81	Fast fusion, good processability	Sheets, pipes, profiles, foam sheets, foam pipes,WPC	PA-60, KT35
	HR-90	Fast fusion high melt strength, high melt xpansion	Sheets, pipes, profiles, foam sheets, foam pipes,WPC	
	HR-910	High melt strength	Sheets. pipes, profiles, foam sheets, foam pipes,WPC	
IMPACT MODIFIER	CPE135A	Good impact strength	Sheets, pipes, profiles, foam sheets, foam pipes, WPC	
LUBRICANT	H-60	Internal and external lubricant	Sheets, films, bottles	G-60, L-60
	H-74	External lubricant	Sheets, films, bottles	G-74, L-74
STABILIZER	Ca/Zn-850	High stability	Special for profile	
	Ca/Zn-830	Stability, lubricating, good balance	Special for pipes	
	Ca/Zn-630	Good stability, coupling	Special for sheet	
	Ca/Zn-820	Good stability, coupling	Foam products	
	Lead stabilizer	Stability, lubricating, good balance	Sheets, profiles, pipes, foaming products,WPC	
FOAMING AGENT	AC-110	Launched a wide temperature range big gas evolution good stability	Foaming tube,foam board,wood artificial leather	
	NC-220	Good stability	Foaming tube,foam board,wood artificial leather	
PVC ANTI-SHRINKAGE STRENGTH AGENT	MS	Stability of dimension	PVC rigid product: WPC,SPC sheets,plate	

# PVC 抗冲改性剂 MBS 系列

## PVC IMPACT MODIFIERS MBS SERIES

### 一、简介 Product Description

RH 系列产品是采用先进的合成树脂技术精心研制成的 MBS 产品，它是由甲基丙烯酸甲酯、丁二烯、苯乙烯三元共聚而成，是改善聚氯乙烯制品耐冲击强度和加工性能的综合性树脂。

RH series product is a grade of MBS products developed with advanced synthetic resin technology, ternary copolymerized by Methyl Methacrylate(M), Butadiene(B) and Styrene(S). It is an integrated resin for improving impact strength and processing performance of PVC products.

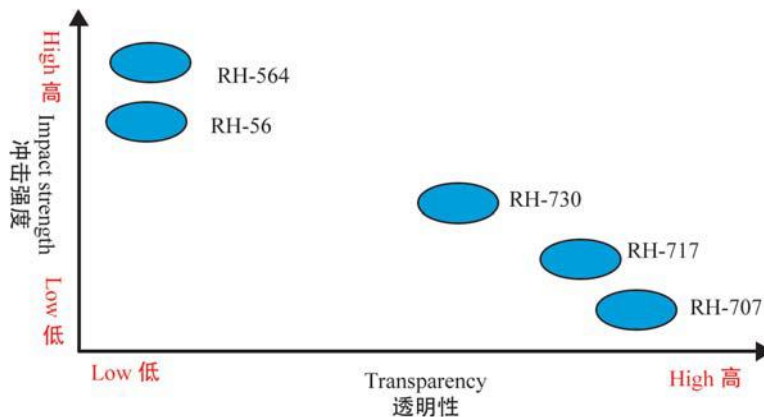
### 二、质量标准 Quality guideline

指标 Index	RH-707	RH-717	RH-100a	RH-730	RH-56	RH-564
外观 Appearance	白色流动粉末 White flowing powder					
粒度 (20 目通过率) Particle Size(20 mesh Pacing percentage)%	≥ 98					
挥发性 Volatiles Content(%)	≤ 1.0					
堆积密度 Bulk Density(g/cm <sup>3</sup> )	0.25-0.50					

### 三、应用特点 Application Characteristic

在聚氯乙烯配方中添加 H 系列产品，制品的冲击强度能得到明显的改善，但对聚氯乙烯固有的特性无不良影响。它广泛用于聚氯乙烯薄膜、片材、管材、管件、瓶粒料等非户外产品。

By adding H series products in rigid PVC, the product impact strength can be improved obviously without any negative effect to PVC's proper character. It is widely used in indoor products such as PVC films, sheets, pipes, pipe fittings and granular bottle



### 四、用途及用量 Purpose and Dosage

项目 Item	RH-707	RH-717	RH-100a	RH-730	RH-56	RH-564
产品特性 Properties	用于 PVC 透明制品 For transparent PVC products				用于 PVC 非透明制品 For opaque PVC products	
	高透明、无折白 High transparency Non crease whitening	高透明、低折白、色相好 High transparency Less crease whitening	高透明、无折白 High transparency Non crease whitening	通用性 Good general performance	超高冲击强度 Ultra-high impact strengt	
用途 Applications	高档片材、薄膜 High grade sheets,films	片材、薄膜 Sheets, films	片材、薄膜 Sheets, films	片材、薄膜 Sheets, films	片材、管材、管件、板材 Sheets, pipes, pipe fitting	
推荐用量 (PHR) Recommended Dosage	6-8	6-8	5-7	7-10	4-8	



## PVC 抗冲改性剂 AMB

### IMPACT MODIFIERS FOR PVC AMB

#### 一、简介 Product Description

AMB 抗冲改性剂是本公司自主研发的一种新型 PVC 抗冲改性剂，它是由 CPE 和丙烯酸酯接枝形成的新型抗冲改性剂，克服了 CPE 产品玻璃化温度高、分散性差的缺点，能够赋予产品更好的韧性和低温抗冲性能，同时还能提高产品的耐候性。AMB 树脂可应用于 PVC 型材、管材、板材等诸多加工领域。产品为白色粉末。

Impact modifiers for AMB is the company independent research and development of a new type of impact modifiers for PVC, it is formed by CPE and acrylate grafted new impact modifier, overcome the CPE products high glass transition temperature, the poor dispersion, can give the product a better toughness and impact resistance at low temperature, at the same time also can improve the weatherability of the product. AMB resin can be used in PVC profiles, pipes, plates, and many other industries. The product is white powder.

#### 二、主要技术指标 Technical Data

项目 Item	AMB
外观 Appearance	白色粉末 White powder
表观密度 Apparent density, g/cm <sup>3</sup> ≥	0.4
筛余物 (0.8mm) ≤ Screenings (0.8 mm) ≤	2
挥发份 % ≤ Volatile % ≤	0.5

#### 三、性能和用途 Properties and Application

应用范围：型材、异形材、管材、管件、发泡板等 PVC 硬制品中

Application scope: Profiles, special-shaped materials, pipes, pipe fittings, such as foam plate rigid PVC products.

特性：产品具有良好的耐候性和热稳定性、耐腐蚀性，优良的分散性和流动性，具有优异的断裂伸长率。

Features: Products with good weatherability and thermal stability, corrosion resistance, good dispersion and mobility, excellent elongation at break.



## 丙烯酸酯类抗冲改性剂 H 系列 (AIM) ACRYLIC IMPACT MODIFIERS H SERIES

### 一、简介 Product Description

H系列抗冲改性剂是PVC制品用丙烯酸类耐候性抗冲改性剂，它是以交联的聚丙烯酸丁酯为“核”，以接枝的甲基丙烯酸甲酯为“壳”的“核—壳”结构的改性剂。它不仅能明显地改善制品的抗冲性能，还能增加制品的表面光泽度，尤其是能提高制品的耐候性能，特别适用于户外制品。该产品广泛用于PVC异型材、片材、板材、管材、管件及各种注塑制品。

H series impact modifier is a weatherable acrylic impact modifier used in rigid PVC products. It is a “core-shell” structure modifier, with cross-linked poly butyl acrylic as “core” and graft methyl methacrylate as “shell”. It not only improves impact resistance performance of the product, but also increases the surface gloss of the product, and especially the weatherability of the product. It is especially suitable for outdoor products and broadly used in PVC profiles, sheets, boards, pipes, pipe fittings, etc.

### 二、质量标准 Quality guideline

指标 Index	H-21, H-22、 H-61	H-55	H-50
外观 Appearance	白色流动粉末 White flowing powder		
SUS (20 目通过率) Partide Size(20 mesh passing percentage)%	≥98		
挥发性 Volatiles Content(%)	≤1.5		
表现密度 Bulk Density(g/cm <sup>3</sup> )	0.40-0.55	0.45-0.56	0.35-0.55

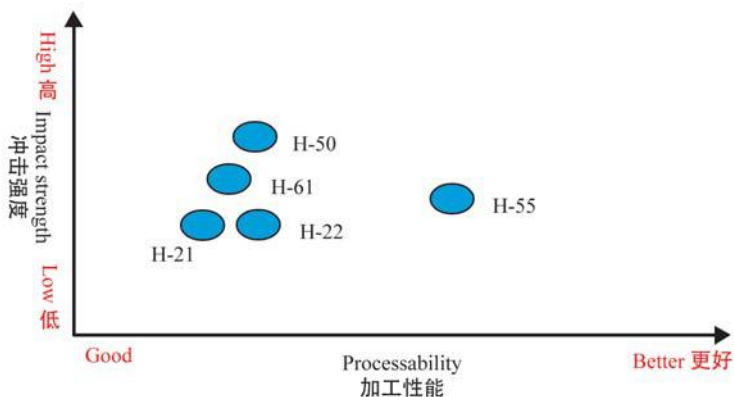
### 三、产品优点 Product Benefits

与氯化聚乙烯 (CPE) 和其他冲击改性剂相比，H 系列产品具有以下优点：

- 1、最佳的抗冲击效率和抗冲击强度的保留性，优异的耐候性能。
- 2、能显著提高制品的表面光泽度，加工工艺范围宽，适合高速挤出。
- 3、在提高抗冲击强度的同时，保持制品良好的刚性。

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

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



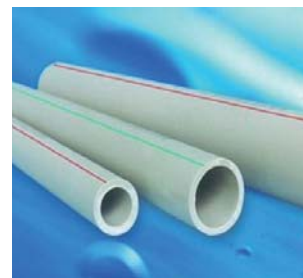
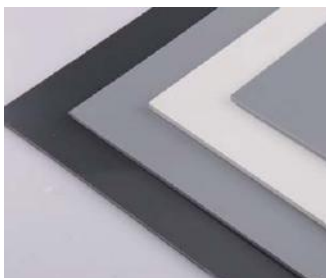


#### 四、产品的分类和特性 Product Category and Properties

产品牌号 Product	常温抗冲击性能 Impact property under normal temperature	低温抗冲击性能 Impact property under low temperature	产品特点 Product characteristics
H-21	****	****	加工性能好 Good processability
H-22	****	****	塑化快、光泽好 Fast fusion, good gloss
H-50	*****	*****	特强低温抗冲击性 Excellent low-temperature impact properties
H-55	****	*****	优异的加工性能 Excellent processability
H-61	*****	*****	优异的抗冲击性 Excellent impact properties

#### 五、应用特点 Application Characteristic

项目 Item		H-21、 H-22	H-50	H-61	H-55
特性 Properties		非透明制品用 For opaque products			
用途 Applications		异型材、板材、管材、管件 Profiles, sheets, pipes, pipe fittings, etc.			
推荐用量 ( phr ) Recommended Dosage	抗冲 ACR Impact Modifiers	5-8	4-7	4-7	5-8
	加工 ACR Processing Aids	0	0.5-1.0	0.5-0.8	0



# PVC 润滑性加工改性剂 HR 系列

## PVC LUBRICATING PROCESSING AIDS HR SERIES

### 一、简介 Product Description

HR 系列润滑性加工改性剂是一种具有独特功能的润滑性加工助剂。适用于所有聚氯乙烯制品，如片材、薄膜、瓶子、异型材、管材、管件、注塑零件及发泡板材。

在 PVC 加工成型过程中，添加少量该产品后，可在保持原有透明度的基础上，使其具有优异的金属剥离性，更好的加工流动性，同时大大延长运行时间，提高产量，并赋予制品更佳表面光洁度。它可以单独使用，但更常用的方法是将它与其它加工助剂一起添加，共同促进 PVC 树脂的塑化。

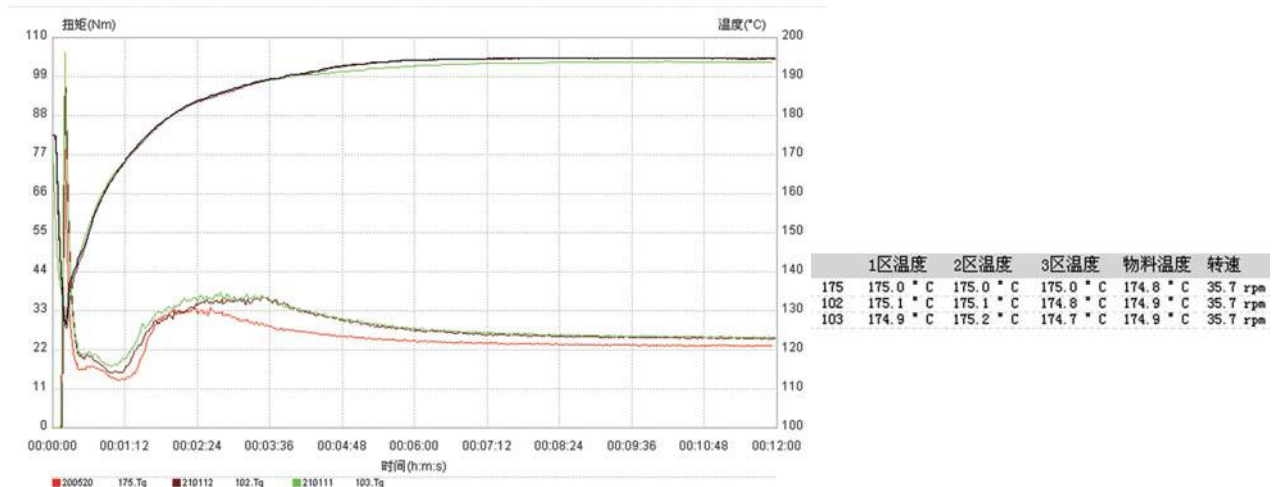
HR series lubricating processing aids are lubricating processing aids with a unique function, suitable for all PVC products such as sheets, film, bottles, profiles, pipes, pipe fittings, foam sheets, etc.

Adding small amount of this product during PVC processing and molding procedure can give excellent metal release properties and better fluidity, 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 fusion of PVC resin.

### 二、基本物理性能 Typical Physical Properties

指标 Index	HR-175	HR-102	HR-103
外观 Appearance	白色流动粉末 White flowing powder		
特性粘度 Viscosity (H(Ubbelohde Viscometer)	0.4-1.0	0.8-1.3	1.3-1.8
粒度 (40 目通过率) Particle size (40 mesh Passing percentage)(%)	≥ 98		
挥发性 Volatiles Content(%)			
堆积密度 Bulk Density(g/cm <sup>3</sup> )	0.35-0.55		

### 三、流变曲线比较 Rheological Property



### 四、润滑性 HR 系列产品与常用润滑剂的综合性能对比

#### Integrate Performance Comparison of HR Series Product with Regular Lubricant

样品 Samples	项目 Item	金属剥离性 Metal release	透明性 Transparency	色调 Tone	塑化特性 Fusion property
润滑性 HR 系列 Lubricating HR series		好 Good	好 Good	好 Good	好 Good
硬脂酸 Stearic Acid		一般 Fair	好 Good	差 Bad	好 Good
氧化聚乙烯蜡 Oxidized PE Wax		好 Good	一般 Fair	一般 Fair	差 Bad

# PVC 加工改性剂 HR 系列

## PVC PROCESSING AIDS HR SERIES

### 一、简介 Product Description

加工改性剂 HR 系列产品系我公司采用先进的聚合技术和干燥工艺开发的高分子量聚合物，产品能促进 PVC 凝胶化，提高熔体流动性，明显改善加工性能。广泛用于 PVC 异型材、板材、管材、管件以及发泡制品。

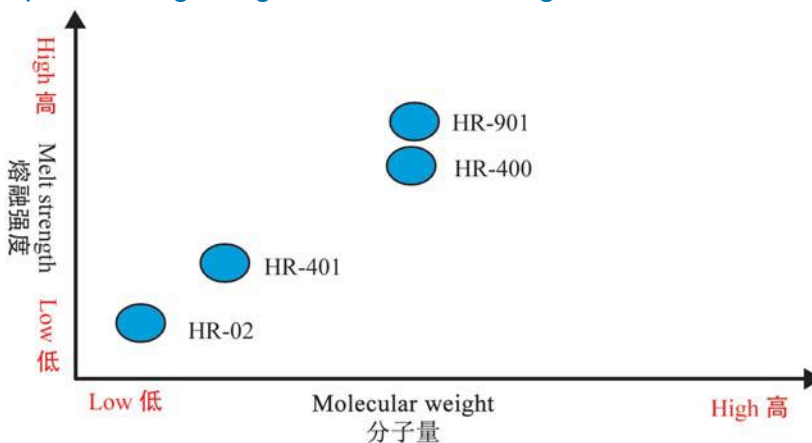
Processing aids HR series products are high molecular weight polymers developed by our company using advanced polymerization technology and drying techniques. These products can improve PVC gelation, fusion fluidity and processing performance and are broadly used in PVC profiles, sheets, pipes, pipe fittings and foam products.

### 二、基本物理性能 Typical Physical Properties

指标 Index	HR-401	HR-02	HR-400	HR-901
外观 Appearance	白色流动粉末 White flowing powder			
特性粘度 Viscosity(TI)(Ubbelohde)	3.0-4.0	2.0-3.0	10.0-13.0	10.0-13.0
粒度 (40 目通过率) Particle size( 40 mesh Passing percentage)(%)	≥ 98			
挥发性 Volatiles Content(%)	≤ 1.0		≤ 1.5	
堆积密度 Bulk Density(g/cm <sup>3</sup> )	0.30-0.50			

### 三、产品的熔融强度与分子量的关系

The Relation of Melting Strength & Molecular Weight of the Product



### 四、应用特点 Application Characteristic

项目 Item	HR-401			HR-02		HR-400		HR-901	
应用领域 Applications	管材 Pipes	管件 Pipe fitting	异型材板材 Profiles, sheets	管材 Pipes	异型材 Profiles	发泡管 Foam pipes	发泡板 Foam sheets	发泡管 Foam pipes	发泡板 Foam sheets
推荐用量 (PHR) Recommended Dosage ( PHR)	0.5-2.0	2.0-3.0	1.5-2.5	1.0-2.0	1.5-3.0	5.0-8.0	7.0-10.0	5.0-8.0	7.0-10.0
应用特点 Properties	产量高、光洁度高 High output, high gloss			熔体流动性好 Good fusion fluidity		泡孔均匀、密度小 Even bubbles Low density		塑化快 Fast fusion	



# 超高分子量 PVC 发泡调节剂

## ULTRA-HIGH MOLECULAR WEIGHT PROCESSING AIDS

### 一、简介 Product Description

HR-530、HR-80、HR-902、HR-90、HR-910 是公司为适应市场需求而自主开发的全丙烯酸酯类 PVC 超高分子量加工助剂，本产品具有塑化快，熔体强度高的特点，可广泛适用于各类异型材，管材及各种发泡管材、板材、木塑制品等。

HR-530, HR-80, HR-902, HR-90, HR-910 is a new ultra-high molecular weight acrylic processing aid for rigid PVC and high quality foam applications. It gives the following performance properties—low torque, faster fusion, high melt strength and expansion.

### 二、性能 Performance

- 1)、其塑化快的特性可促进 PVC 的低温熔融，能有效改变 PVC 树脂的流变性能。
- 2)、明显增强 PVC 的熔融强度、热伸长率及弹性度，赋予 PVC 制品极佳的产品密度与表面光洁度。

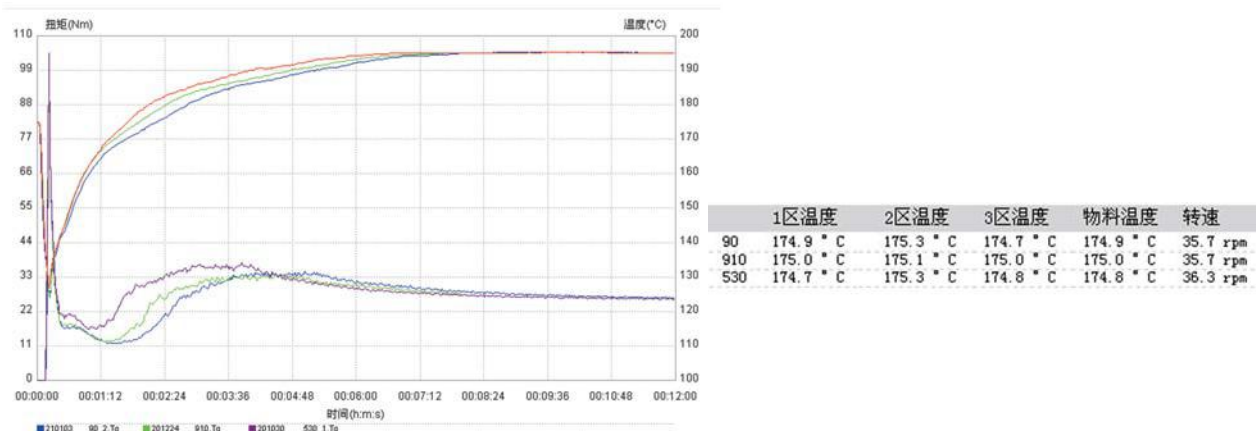
1).Its plasticized PVC can promote fast low-temperature properties of melt can effectively alter the rheological properties of PVC resin.

2).Significantly enhanced PVC melt strength, elongation and thermal elasticity, PVC products imparting an excellent surface finish.

### 三、基本物理性能 Typical Physical Properties

指标 Index	HR-530	HR-90	HR-910
外观 Appearance	白色流动粉末 White flowing powder		
粒度(40目通过率) Particle size(40mesh Passing percentage)(%)	≥ 98	≥ 98	≥ 98
挥发性 Volatiles Content(%)	≤ 1.5	≤ 1.5	≤ 1.5
特性粘度 Viscosity( $\eta$ )(Ubbelohde Viscometer)	9.0-11.0	14.0-15.0	14.0-15.0

### 四、流变曲线比较 Rheological Property



### 五、适用产品及推荐用量 Application

牌号 Inem	性能 Proper						推荐用置 Recommended dosage			
	金属剥离性 Metal release	塑化性能 Promote fusion	熔融强度 Melt strength	离膜膨胀性 Melt expansion	分散性 Dispersivity	加工流动性 Rheological Property	型材、管材 Profiles, pipes	发泡板材 Foam sheets	发泡管材 Foam pipes	木塑 WPC
HR-530	**	****	****	****	***	****	0.8-1.0	9.0-11.0	5.0-6.0	5.0-6.0
HR-90	**	****	****	*****	****	****	0.8-1.0	8.0-10.0	5.0-6.0	
HR-910	**	****	****	*****	****	****	0.6-0.8	9.0-11.0	5.0-6.0	

# 氯化聚乙烯 (CPE) 135A

## CHLORINATED POLYETHYLENE (CPE135A)

### 一、简介 Product Description

氯化聚乙烯 (简称 CPE) 是由高密度聚乙烯 (HDPE) 经氯化取代反应制得的高分子弹性体材料, 外观为白色粉末, 无毒无味, 具有优良的韧性、耐侯性、耐油性、阻燃性、着色性、耐臭氧、耐化学药品等性能, 与各种塑料、橡胶相容, 填充性能优良。根据产品性能不同, CPE 可用作抗冲击改性剂、塑料改性增溶剂以及合成特种橡胶。

Chlorinated polyethylene (abbreviated CPE) is made from high-density polyethylene (HDPE) replaced by chlorination reaction of elastic polymer materials, the appearance of white powder, non-toxic, odorless, with excellent toughness, weather resistance, oil resistance, flame retardant, coloring resistance, ozone resistance, chemical and other properties, is compatible with a variety of plastics, rubber, excellent filling properties. Depending on the product performance, CPE can be used as impact modifiers, plastics and synthetic modification of solubilizing special rubber.

### 二、主要技术指标 Technical Data

指标 Item	单位 Unit	CPE135A
氯含量 Chlorine Content	%	35 ± 2
热分解温度 Thermal Decomposition Temperature	℃	≥ 165
堆积密度 Bulk Density	g/ml	≥ 0.50
挥发物含量 Volatiles content	%	≤ 0.50
筛余物 (20 目) Particle size (20 mesh passing percentage)	%	≥ 99
杂质粒数 Impurity Particle	个 /50g	≤ 10
邵尔硬度 (A) Shore Hardness	°	≤ 65
抗张强度 Tensile Strength	MPa	≥ 6.0

### 三、用途 Application

CPE135A 具有优良的阻燃和低温冲击性能, 能够增加 PVC 的韧性和冲击强度, 可广泛应用于 PVC 异型材、管材及管件、板材、线材等硬质 PVC 制品。

CPE135A has excellent flame and low temperature impact properties, can increase the toughness and impact strength of PVC, widely used in PVC profile, pipe and pipe fittings, sheet metal, wire and other rigid PVC products.

# PVC 润滑剂

## PVC LUBRICANT

### 一、简介 Product Description

PVC 润滑剂 H-60 为中性饱和脂肪醇二羧酸酯，其性状为乳白色或淡黄色的片状或流动粉末，无毒无味，不溶于水，易溶于磷酸三丁酯和三氯甲烷，熔点 42-48℃，闪点 >225℃，挥发度：(96 小时 /90℃ )<1%。

PVC 润滑剂 H-74 为高分子量中性多元脂肪酸复合酯，其性状为乳白色或淡黄色的片状或流动粉末，无毒无味，不溶于水，易溶于磷酸三丁酯和三氯甲烷，熔点 48-56℃，闪点 >230℃，挥发度：(96 小时 /90℃ )<1%。

PVC Lubricant H-60 is based on neutral dicarboxylic acid ester of saturated fatty alcohols. It is a white or slight yellow debris or free-flowing powder, odourless. It doesn't dissolve in water but dissolves in tributyl phosphate (TBP) and trichloromethane. Its melting point is 42-48 °C flash point > 225°C , volatiles: (96 hour/90 °C )< 1%.

PVC Lubricant H-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 doesn't dissolve in water but dissolves in tributyl phosphate (TBP) and trichloromethane. Its melting point is 48-56°C , flash point >230°C , volatiles: (96 hour / 90°C ) < 1%.

### 二、主要技术指标 Technical Data

项目 Item	单位 Unit	H-60	H-74
密度 Density	g/cm <sup>3</sup> (80℃ )	0.86-0.89	0.88-0.93
酸值 Acid value	mgKOH/g	<10	<12
碘值 Iodine value	gI <sub>2</sub> /100g	<1	<2
粘度 Viscosity	mPa.S(80℃ )	10-16	40-80
折光指数 Refractive index	(80℃ )	1.453-1.463	1.420-1.470

### 三、用途 Application

H-60 作为硬聚氯乙烯制品加工用润滑剂，与 PVC 及其他助剂有着良好的相容性，适用于多种加工条件。能促进熔体均匀塑化，改善冲击强度及表面光泽度，可广泛应用于透明片、粒料、型材、板材、管材中，添加量一般为 0.3-1.2 份，特殊情况下适当增加。

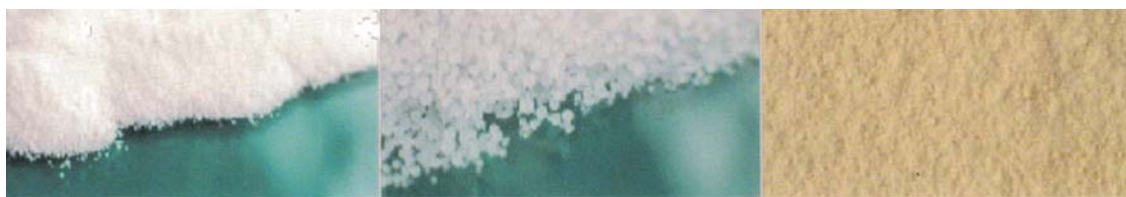
H-74 为聚氯乙烯加工用外润滑剂，特别适用于软 / 硬 PVC 粒料，透明片材，板材、收缩膜，压延膜的加工。它可使物料塑化时间延长，降低平衡扭矩，增强脱模效果，改善制品的表面光洁度。添加量一般为 0.3-0.8 份 ( 透明 )，0.3-1.2 份 ( 不透明 )，特殊情况下可适当增加。

H-60 as a hard PVC products processing lubricant, and other additives with the PVC has good compatibility, for a variety of processing conditions, can promote homogeneous melt plasticization, improved impact strength and surface gloss, can be widely applied in transparent film, aggregates, profiles, sheet, pipe, the amount is usually 0.3-1.2 parts, due to increase in special cases.

H-74 external lubricant for PVC processing, especially for hard / soft PVC granules, transparent sheet, plate, shrink film, calendaring the film processing. It allows prolonged plastics materials, to reduce the torque balance, to enhance the release effect, improving the surface finish of the article. Adding content is generally 0.3- 0.8 parts (transparent), 0.3-1.2 parts (opaque), may be increased under special circumstances.



#### 四、其它润滑剂介绍 Introduction to other lubricants



产品牌号 Item	产品类别 Category	熔点℃ Melting point	酸值 Acid value mg KOH/g	粘度 Viscosity mPas 140℃	针入度 Needle penetration dmm	密度 Density g/cm <sup>3</sup>
E18	聚乙烯蜡 Polyethylene wax	110-120	0	<400	<3	0.93-0.95
E19	聚乙烯蜡 Polyethylene wax	98-103	0	<40	<3	0.94-0.96
E20	聚乙烯蜡 Polyethylene wax	105-110	0	<900	3-7	0.94-0.96
E21	聚乙烯蜡 Polyethylene wax	110-115	0	<120	<4	0.94-0.96
EO40	氧化聚乙烯蜡 Oxidized polyethylene wax	97-105	<20	<300	5	0.93-0.96
E045	氧化聚乙烯蜡 Oxidized polyethylene wax	135-140	<30	<4000	<0.5	0.97-0.99
G301	费托蜡 Fischer Tropsch wax	110-120	0	<20	<1	0.94-0.95
G302	费托蜡 Fischer Tropsch wax	105-110	0	<40	<2	0.94-0.95
X52	蔗糖蜡 Sucrose wax	68-80	20-50	<40	24	<0.90
H71	复合蜡 Compound wax	85-95	15-25	<100	1-2	0.92-0.95
H72	复合蜡 Compound wax	78-88	15-25	<10	1-2	0.92-0.95
H83	复合蜡 Compound wax	90-110	5-10	<20	5-10	0.90-0.93
H91	复合蜡 Compound wax	110-120	0	<20	<5	0.94-0.95
1801	硬脂酸 Stearic acid	54-57	205-210			0.83-0.85

## PVC 铅盐复合稳定剂

### PVC LEAD BASED COMPOSITE STABILIZER

#### 一、简介 Product Description

采用特殊复合工艺，集热稳定剂、润滑剂和抗氧化剂等助剂为一体，制成的无粉尘、多功能、多用途、高效率的片状助剂产品，在 PVC 加工配方中使用，兼具热稳定性和润滑性的功能，并能改善制品的耐老化性能及表面光洁度。主要用于管材、管件、电缆料、异型材、板材、波纹管等 PVC 制品中。

The use of special composite technology, thermal stabilizer, lubricant and antioxidants and other additives, no dust, made of multifunctional additives, multi-purpose, high efficiency of sheet products, used in PVC processing formula, with the function of the thermal stability and lubricity, and can improve the aging resistance and surface finish of products. Mainly used for pipes, pipe fittings, cable materials, profiles, plate, corrugated pipe and other PVC products.

#### 二、主要技术指标 Technical Data

项目 Item	复合稳定剂 Composite stabilizer
外观 Appearance	白色或淡黄色片状 White or light yellow sheets
金属盐类含量 $\geq$ Metal salts content $\geq$	25-35
挥发份 % $\leq$ Volatile % $\leq$	0.5
初融温度 At the beginning of melting temperature $^{\circ}\text{C}$	70

#### 三、性能和用途 Properties and Application

应用范围；主要应用于 PVC 型材、发泡板材、管材、管件、栅栏、壁板、地板等 PVC 制品领域。

Application scope: Mainly used in PVC profiles, foam sheet, pipe, pipe fittings, fences, wall plate, plate, and other areas of the outdoor PVC products.

特性：它与 PVC 树脂有很好的相溶性，热稳定效率高且用量少，制品强度高，加工时不需再加任何稳定剂，根据填充料多少适量添加或不加润滑剂。使用时无需研磨，一次秤计量精确。使用方便，节能降耗，是一种 PVC 塑料生产加工助剂的更新换代产品。

Features: It with PVC resin has good intermiscibility, thermal stability of high efficiency and low dosage, products with high intensity, processing does not need to add any stabilizer, according to how much amount to add or not add lubricant filling material. When used without grinding, weighing, measuring precision, easy to use, saving energy and reducing consumption, is a kind of upgrading of the processing AIDS for the production of PVC plastic products.

# PVC 钙锌稳定剂

## PVC CA/ZN STABILIZER

### 一、简介 Product Description

PVC 钙锌稳定剂由钙盐、锌盐、润滑剂、抗氧剂等为主要组分采用特殊复合工艺而合成，与 PVC 相容性好，有添加份量少，挥发少，迁移性小等优质特点。可应用于 PVC 型材、管材、板材、鞋材、地垫等诸多加工领域。产品为白色或微黄色粉末。

PVC CA/ZN stabilizer is compounded by calcium salt, zinc salt, lubricant, antioxidant as main components and use special composite process. It is good compatibility with PVC, with less added amount, less volatile, small migration and other quality characteristics. It can be used in many processing fields such as PVC profiles, pipes, plates, mat and shoe-pad. The product is white or light yellow powder.

### 二、主要技术指标 Technical Data

检测项目 Test item		检测标准 Test standard
外观 Appearance		白色或微黄色粉末 White or light yellow powder
润滑 Lubrication		0-30
熔程 ( °C ) Melting range		50-180
RoHS 指标 Index	As(ppm)	< 100
	Br(ppm)	< 100
	Cd(ppm)	< 100
	Hg(ppm)	< 100
	Pb(ppm)	< 100
	Cr(ppm)	< 100

### 三、性能和用途 Properties and Application

◆ 无毒环保，重金属含量满足 EN71/EN1122/EPA3050B, 完全符合欧盟 RoSH 指令、EN71-3、PAHs 多环芳香烃 ( 18 项 )、邻苯二甲酸盐 ( 18 项 )、REACH-SVHC 等环保标准要求。

◆ 可完全替代铅盐稳定剂，不存在硫化污染问题；

◆ 产品具有良好的常温颜色稳定性，良好的耐光耐候性；

◆ 产品具有良好的分散性，提高制品的力学性能；

◆ 运输及储存注意防潮、防晒。

◆ Non-toxic environmental protection, heavy metal content meets EN71/EN1122/EPA3050B, fully in line with the EU ROSH directive, EN71-3, PAHs polycyclic aromatic hydrocarbons (18 items), phthalates (18 items), REACH-SVHC and other environmental protection standards.

◆ It can completely replace lead salt stabilizer, there is no vulcanization pollution problem.

◆ Good color stability at room temperature, good light and weather resistance.

◆ The product has good dispersion, improve the mechanical properties of the product.

◆ Transportation and storage should be protected from moisture and sun.



## PVC 抗缩增强剂 MS 系列

### PVC ANTI-SHRINKAGE STRENGTH AGENT MS SERIES

#### 一、简介 Product Description

PVC 抗缩增强剂 MS 是我公司针对 WPC 和 SPC 地板和模板的烘箱实验和热变形实验中所体现出来的收缩、变形、翘曲等问题，专门研发的功能性助剂，主要用来提高制品的强度硬度，减少热胀冷缩变形量，以达到固定制品尺寸的效果，此产品已应用于国内外多家大型 PVC 地板，模板厂家产品中，使用效果明显。

PVC anti-shrinkage strength agent MS series is a kind of a functional additives that our company do the research and development for WPC and SPC floor to solve the problems in the oven experiment and thermal deformation experiment It will improve the strength, hardness of the products and reduce heat expansion and shrinkage deformation parameters to achieve the effect of dimension of fixed product This product has been used in many large PVC floor boards factories at home and abroad, and used well.

#### 二、主要技术指标 Technical Data

型号 Grade	MS-700	MS-701	MS-702
用途 Application	透明制品 Transparent products	软制品 Soft products	硬制品 Rigid products
外观 Appearance	白色流动粉末 White flowing powder		
粒度 (80 目通过率) Particle size(80 mesh passing percentage)(%)	100		
挥发性 Volatiles content(%)	≤ 1.0		
堆积密度 Bulk density(g/cm)	0.4-0.65		

#### 三、性能和用途 Properties and Application

- 1、提高尺寸稳定性降低收缩率：WPC、SPC 地板，墙板，户外制品，管件等产品降低收缩率提高尺寸稳定性效果好。
- 2、提高冲击强度和弯曲强度。
- 3、提高热变形温度，握钉力及产品表面硬度。
- 4、MS 降低制品收缩率提高尺寸稳定性，所以对有筋制品如墙板，木塑门板等可做到无收缩筋痕。
- 5、可用于 PVC 所有硬制品和软制品。

- 1) Improve the stability of dimension and reduce the shrinkage of probability such like WPC, SPC floor board, wall board, outdoor products, pipe fittings. The product reduces the shrinkage rate and improves the dimensional stability.
- 2) Improve the impact strength and bending strength.
- 3) Improve the temperature of thermal deformation, strong nail-gripping ability and the surface hardness of products
- 4) MS reduces the shrinkage rate of products and improves dimensional stability, so there can be no shrinkage bar marks for reinforced products such as wall panels and wood-plastic door panels.
- 5) It could be used in all PVC rigid and soft products.

#### 四、用法用量 Usage and dosage

项目 Item	MS-700	MS-701	MS-702
产品特点 Properties	在不影响产品透明度的前提下最大限度提升产品冲击强度，降低热变形度  On the premise of not affecting the transparency of the product, the impact strength of the product is maximized and the thermal deformation is reduced	减少制品热胀冷缩性，提高尺寸稳定性  Reduce thermal expansion and cold shrinkage of products, improve dimensional stability	超强抗冲击性、尺寸稳定性  Super high impact strength, stability of dimension
用途 Applications	PVC 透明板材、片材 PVC transparent sheets	PVC 软制品：地垫、地胶 PVC soft product :mat, glue	PVC 硬制品： WPC、SPC、管材、管件 PVC rigid product: WPC SPC pipes, pipe fittings:
用量 Dosage	6-10	6-8	6-10

备注：添加 MS 系列产品客户原配方不变，高混时加入即可，挤出时适当提高加工温度。

Remarks: add MS series material, no need change customer original formulations, add it while high mixing, improve the temperature properly when extruded.

## PVC 发泡剂

### PVC FOAMING AGENT AC、NC

#### 一、简介 Product Description

AC 黄色粉末，比重 1.66，无毒、无臭、易燃，为发泡量大的发孔剂。分解时重量的 32% 分解成气体，27% 升华，41 % 的残渣。分解的气体中，氮气占 65%，一氧化碳占 32%，二氧化碳占 3%。分解热 359.5J/g，比热 0.26，燃烧热 1070KJ/mol

NC 白色粉末，吸热型发泡剂，发起温度低，配合 AC 发泡剂使用，能达到吸放热平衡效果。

AC yellow powder, specific gravity 1.66, non-toxic, odorless, flammable, big fat hole for foaming agent. 32% by weight of the decomposition is decomposed into gas, 27% distillation, residue was 41%. Decomposition of gas, 65% nitrogen, 32% carbon monoxide, carbon dioxide, 3%. Thermal decomposition 359.5J / g, 0.26 specific heat, heat of combustion 1070KJ/mol.

NC white powder endothermic foaming agent, initiating temperature is low, with the AC blowing agent used to achieve the effect of absorbing heat balance.

#### 二、主要技术指标 Technical Data

项目 Item	AC	NC
外观 Appearance	淡黄色粉末 Light yellow powder	白色粉末 White powder
发气量 ml/g ≥ Gas evolution ml/g ≥	210	145
分解温度 ≥ Decomposition temperature ≥	180–200	130–180
细度 筛余物 (筛孔 μ m38) % ≤ Fineness screenings (mesh eta m38) % ≤	0.10	0.10
加热减量 % ≤ Heating loss % ≤	0.25	0.40
灰分 % ≤ Ash % ≤	0.1	0.1
纯度 % ≤ The purity %	97	98
PH 值 PH	6.5–7.5	6.5–7.5
挥发性 % ≤ Volatile% ≤	0.5	0.5

#### 三、性能和用途 Properties and Application

应用范围：PVC 发泡硬制品、EVA、PE、天然橡胶、PVC+NBR 共混等发泡制品。

Application scope: hard PVC foaming products, EVA, PE and natural rubber, PVC foaming products such as + NBR blend

特性：应用最广泛的发泡剂之一，常压发泡和加压发泡均可使用。广泛用于 EVA、PE、天然橡胶、PVC+NBR 共混等发泡，尤其适用于 EVAMD 鞋材的大模热压发泡和小模热压发泡，能赋予发泡制品优异的特性，尤其有利于提高制品的延伸和获取更为优异的泡孔结构。

Features: one of the most widely used foaming agent, atmospheric pressure foaming and pressurized foam all can use. Is widely used in EVA, PE, natural rubber, PVC + NBR blend, such as foam, especially suitable for EVAMD shoes material of die extrusion foaming and small die extrusion foaming, can gift of foam products excellent, especially to improve the extension of products and get more excellent bubble pore structure.

## 推荐配方

### RECOMMENDED FORMULATIONS

PVC 管材 ( 排水 ) 推荐配方  
PVC Pipe

原料 Ingredient	添加份数 PHR
PVC ( SG5 )	100
碳酸钙 CaCO <sub>3</sub>	100
PE 蜡 PE Wax	0.9
硬脂酸 Stearic Acid	0.8
石蜡 Paraffin	0.3
钛白粉 Titanium Dioxide	1.5
钙锌稳定剂 Ca/Zn Stabilizer	4
AMB-605	7

PVC 穿线管推荐配方  
PVC Cable Conduit

原料 Ingredient	添加份数 PHR
PVC(SG5)	100
碳酸钙 CaCO <sub>3</sub>	50
钙锌稳定剂 Ca/Zn Stabilizer	3.5
AMB-605	8
1801	0.8
PE 蜡 PE Wax	0.4
石蜡 Paraffin	0.5

PVC 管件推荐配方  
PVC Pipe

原料 Ingredient	添加份数 PHR
PVC(SG5)	100
碳酸钙 CaCO <sub>3</sub>	10.0-15.0
钙锌稳定剂 Ca/Zn Stabilizer	4.0-5.0
HR-23	1-1.5
HR-175	0.5
1801	0.2-0.3
PE 蜡 PE Wax	0.2-0.3
AMB	3.0-4.0
钛白粉 Titanium Dioxide	2-2.5
颜料 Pigment	适量 Proper

SPC 推荐配方  
SPC

原料 Ingredient	添加份数 PHR
PVC(SG5)	50
碳酸钙 CaCO <sub>3</sub>	150
CPE-135A	4
H-60	0.6
PE 蜡 PE Wax	0.8
石蜡 Paraffin	0.2
钙锌稳定剂 Ca/Zn Stabilizer	4.5
HR-901	3
回料 Pigment	100

发泡板材推荐配方  
PVC Foam Sheet

原料 Ingredient	添加份数 PHR
PVC ( SG8 )	75
碳酸钙 CaCO <sub>3</sub>	75
钙锌稳定剂 Ca/Zn Stabilizer	3
PE 蜡 PE Wax	0.3-0.5
H-60	0.5
OA6	0.3-0.4
HR-903	8
HR-401	2
AC-110	0.4
NC-220	1.2
钛白粉 Titanium Dioxide	1.5

生态木推荐配方  
Ecological Wood

原料 Ingredient	添加份数 PHR
PVC ( SG8 )	100
碳酸钙 CaCO <sub>3</sub>	100
HR-903	8
木粉 Wood	30
铅复合稳定剂 Lead Based Complex Stabilizer	5
HR-175	2
CPE	6
H-60	0.6
PE 蜡 PE Wax	0.5
AC-110	0.8
NC-220	1.8



## 推荐配方

### RECOMMENDED FORMULATIONS

#### 木塑门板推荐配方 Wood doors

原料 Ingredient	添加份数 PHR
PVC	100
碳酸钙 CaCO <sub>3</sub>	100
HR-401	3
木粉 Wood	25
铅复合稳定剂 Lead Based Complex Stabilizer	5.5
1801	0.9
HR-530	8
石蜡 Paraffin	1
AC-110	1.5
NC-220	1

#### 畜牧围栏、建筑护栏推荐配方 Pasture fence and building guardrail

原料 Ingredient	添加份数 PHR
PVC	100
碳酸钙 CaCO <sub>3</sub>	50
HR-401	1
钛白粉 Titanium Dioxide	7
钙锌稳定剂 Ca/Zn Stabilizer	5
回料 Recycled materials	30
CPE	8
H-60	0.7
PE 蜡 PE Wax	0.5
增白剂	0.02

#### 结皮发泡板推荐配方 Skinning foam board

原料 Ingredient	添加份数 PHR
PVC	75
碳酸钙 CaCO <sub>3</sub>	75
HR-903	8.5
H-60	0.5
钙锌稳定剂 Ca/Zn Stabilizer	3.5
OA6	0.3
HR-175	1
NC-220	1.8
AC-110	0.6
PE 蜡 PE Wax	0.6

#### 型材推荐配方 (抗冲击 ACR 体系) Profile

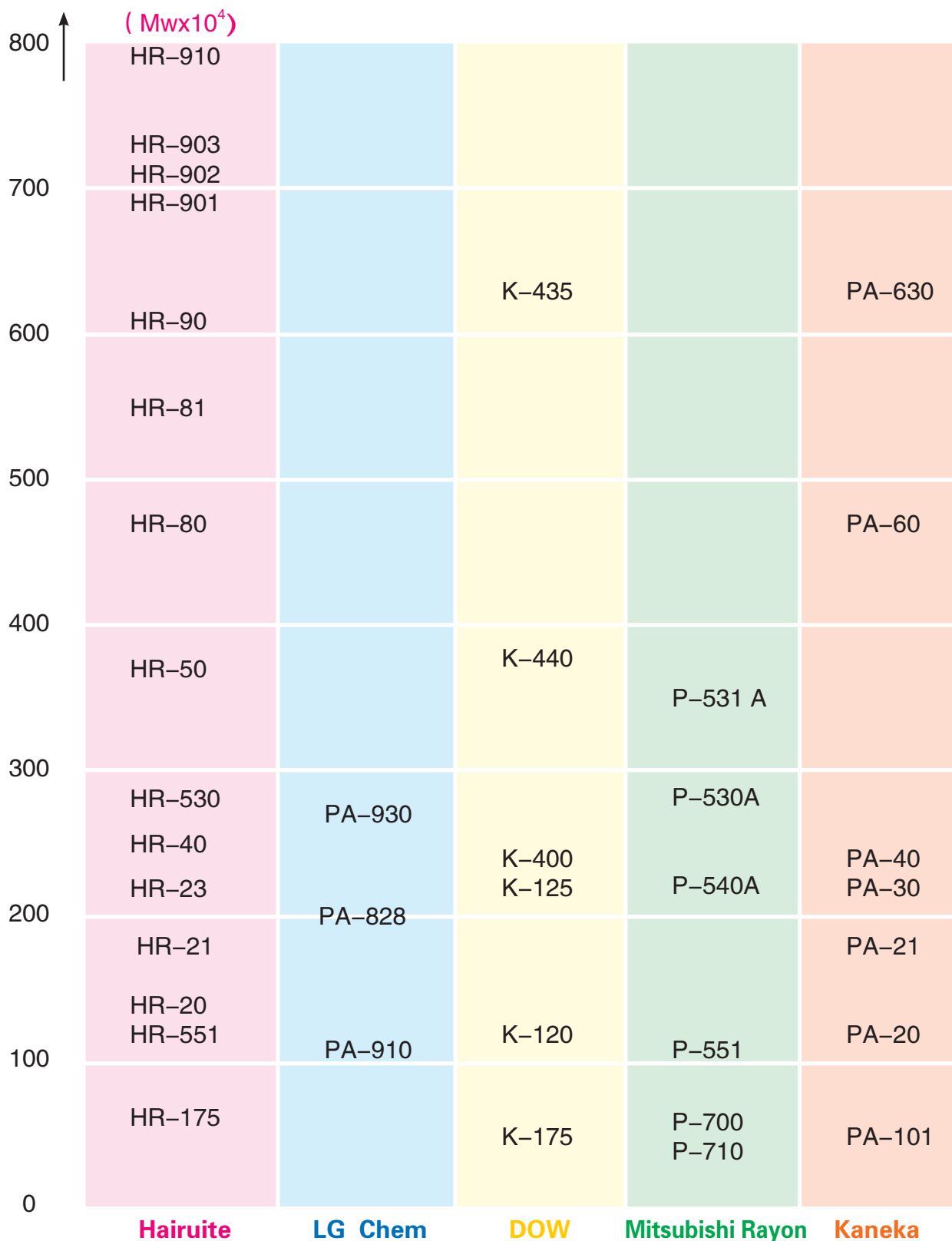
原料 Ingredient	添加份数 PHR
PVC (K: 65-68)	100
钙锌稳定剂 Ca/Zn Stabilizer	6.0
H-60	0.8
Acrylic Impact Modifier H-61	8.5
PVC Processing Aid HR-401	1
钛白粉 Titanium Dioxide	3.0-5.0
碳酸钙 CaCO <sub>3</sub>	50
PE 蜡 PE Wax	1

#### PVC 透明片材推荐配方 PVC Transparent Sheet

原料 Ingredient	添加份数 PHR		
	信用卡	不透明片材	透明片材
PVC	100	100	100
有机锡 Organotin	1.4	1.2	1
H-60	0.7	0.3	0.3
H-74	0.3	0.7	0.5
PE 蜡 PE Wax	0.3	**	**
硬脂酸钙 Calcium Stearate	**	0.08	0.1
钛白粉 Titanium Dioxide	4	4	**
碳酸钙 CaCO <sub>3</sub>	8	**	**
HR-175	0.2	**	**
HR-20	1	1	0.8
RH-564	5	4.0-6.0	**
RH-717	**	**	5.5

## PVC 加工助剂分子量表

### MOLECULAR WEIGHT OF PROCESSING AIDS



## 安全、储运》

### SAFETY TRANSPORTATION AND STORAGE

本产品为无毒、无腐蚀性固体粉末，属非危险品，运输按非危险品处理，应防暴晒、雨淋，远离一切明火。

本产品外用塑料编织袋，内包装用塑料袋，双层包装，每袋  $25\pm 0.1\text{kg}$ ，袋内附有产品合格证。包装袋外注明商标、生产厂名、产品净重。产品应储于阴凉通风处，保存期一年，一年后经性能测定，如无变化，仍可使用。



成品库一角

This product is poisonless and noncorrosive solid powder. It is non-dangerous. Overexposure to the sun, rain, and fires should be avoided.

This product is for external use plastic woven bag, plastic packaging, double layers,  $25 \pm 0.1$  kg per bag, bag, enclosed is the product certificate. Outside packing bag net weight indicate the factory name, trademarks, production products. Products should be stored in a cool ventilated place, shelf life for a year, a year after the performance test, if no change, still can use.





# 优质 高效 绿色 环保

## HIGG QUALITY & EFFICIENCY ENVIRONMENT FRIENDLY

### 系统解决方案

作为塑料加工助剂的生产供应商，公司在做好产品的同时，还可为塑料制品企业提供系统的解决方案。公司建立了一支专业知识深厚、实践经验丰富、反应快速的技术服务专业团队。公司始终以满足客户需求、保证客户利益为宗旨，提供保质保量、性价比高的产品，提供产品调试服务、塑料助剂专项定制服务和塑料制品的检测分析。会同客户及时解决生产过程中出现的工艺技术难题，帮助客户提高产品品质，降低生产成本，创造企业效益。公司还将不断提供最新的原材料行情及相关信息，努力同客户保持紧密协作、相互依存、共同发展的合作伙伴关系。

### SYSTEM SOLUTIONS

AS A SUPPLIER OF PLASTIC PROCESSING ADDITIVES, WE PROVIDE SYSTEMATIC SOLUTIONS FOR PLASTIC PRODUCTS ENTERPRISES WHILE MAKING GOOD PRODUCTS. WE HAVE ESTABLISHED A PROFESSIONAL TEAM OF TECHNICAL SERVICES WITH PROFOUND PROFESSIONAL KNOWLEDGE, RICH PRACTICAL EXPERIENCE AND QUICK RESPONSE. WE ALWAYS SATISFIES THE CUSTOMER'S NEEDS, GUARANTEES THE CUSTOMER'S INTERESTS, PROVIDES QUALIFIED AND COST-EFFECTIVE PRODUCTS. WE ALSO PROVIDE DEBUGGING SERVICES, SPECIAL CUSTOMIZATION SERVICE OF PLASTIC ADDITIVES AND INSPECTION AND ANALYSIS OF PLASTIC PRODUCTS. COOPERATE WITH CUSTOMERS TO SOLVE TECHNICAL PROBLEMS IN PRODUCTION PROCESS IN TIME, HELP CUSTOMERS IMPROVE PRODUCT QUALITY, REDUCE PRODUCTION COSTS AND CREATE ENTERPRISE BENEFITS. WE WILL CONTINUE TO PROVIDE THE LATEST RAW MATERIALS MARKET AND RELATED INFORMATION, AND STRIVE TO MAINTAIN CLOSE COLLABORATION WITH CUSTOMERS, INTERDEPENDENCE AND COMMON DEVELOPMENT OF PARTNERSHIP.





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