



**诚马特科技**  
**HOMART TECHNOLOGY**



# PVC Stabilizer CPE & ACR

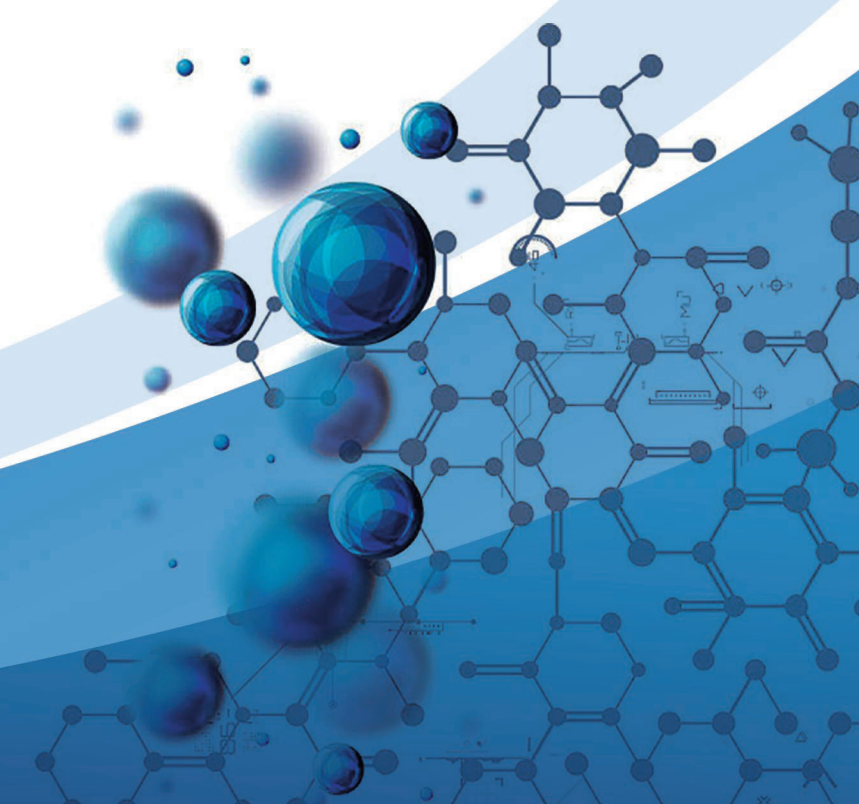
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# Company Profile

Hengshui Homart Technology Co.,Ltd was founded in 1999, specialize in PVC Additive research and quality production. Now, we operate three factories in Hengshui, Jiangshan and Shanghai. We have powerful ability produce single and compound stabilizer both. Production range include Chlorinated Polyethylene CPE135A, PVC Processing Aid ACR series, Lead base Stabilizer and Ca-Zn base Stabilizer.

Homart Technology have experiences engineers can offer the technical support service to clients in time. Also can do customize product to meet special needs of customers. Welcome customers from all over the world to visit our factory to be long-term stable partners.

**KEEP IMPROVING  
AND STABLE QUALITY IS  
THE WAY TO WIN**

Feature Products



Lead Stabilizer



CM - 505  
Design for SPC Floor



Ca-Zn Stabilizer



Processing Aid  
ACR



CM-88  
Replace CPE + ACR



CPE 135A

## COMMITTED TO BUILDING A CENTURY-OLD BRAND FACTORY



## Laboratory



Formula Design | Quality Improve | Customize Produce



**HOMART TECHNOLOGY**  
Change The World From Molecule

## Chlorinated Polyethylene CPE135A

CPE is made from high-density polyethylene. It is the main PVC impact modifier with double performance of the plastic and rubber. It can effectively improve toughness and impact resistance and anti-aging of rigid PVC products, to increase the melting point of PVC. Excellent performance as a result of the above CPE is widely used in PVC plastic profile, sheet, pipe, pipe fittings, waterproof material, wire and cable jacket, seals, and PVC plastic such as the extrusion of laminated rubber.

specification	unit	Value
Appearance	---	White Powder
Chlorine content	%	35±2.0
Heat of fusion	J/g	≤ 2.0
Remains (40 mesh)	%	≤ 2.0
Volatile matter content	%	≤ 0.5
Remains crystallinity	%	≤ 2.0
Impurity particle	pc/100g	≤ 20
Shore hardness A	-	≤ 60
Whiteness E457	o	≥ 88
Apparent density	g/ml	≥ 0.5
Elongation at break	%	≥ 700
Tensile strength	Mpa	≥ 8.0
Thermal decomposition temperature	°C	≥ 165



## PVC Processing Aid ACR401

PVC Processing Aid ACR401 is prepared from acrylate monomers by emulsion polymerization process. It is mainly used to improve the processing performance of rigid PVC Plastic, promote the plasticization and melting of PVC Compound, reduce processing temperature and improve the surface gloss of products; Improve the thermal flow properties and extrusion speed of PVC resin; increase melt strength, improve elongation properties, etc. And make PVC products more uniform and improve physical properties such as mechanical strength.

### Specification

Index	Unit	ACR-401
Appearance	Eye	White Powder
Sieve Residue,40 mesh	%	≥ 98
Volatile Content	%	≤ 1.5
Intrinsic Viscosity	η	4.0±1.0
Bulk Density	g/cm3	0.45±0.10



Promote Plasticizing Effect	★★★★★
Promote Melting Effect	★★★★★
Melting Viscosity	★★★★★
Flowing Properties	★★★★★
Dispersion Performance	★★★★★

Package: 25kg by plastic weaved bag.

Store in its original packaging, in a cool and dry environment.

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## CM-85 PVC Processing Aid

**CM-85** is a design alternative based on CPE135A performance defects. It is a high-performance material developed by nano-polymerization compound technology. CM-85 is an interpenetrating network copolymer(IPN) with the structure of CPE grafted polyacrylate, its main function is to enhance the impact strength of PVC finished products under low temperature and to promote the fusion property of PVC blend.

### Specification

Index	Unit	CM - 85
Appearance	Eye	White Powder
Sieve Residue,40 mesh	%	≥ 98
Tensile Strength	Mpa	8.0 - 10.0
Elongation at Break	%	500
Bulk Density	g/cm <sup>3</sup>	0.55 ± 0.20



### CM - 85:

- Good Product Toughness Property
- Promote the Product Tear Strength
- Wider processing performance

Package: 25kg by plastic weaved bag.

Store in its original packaging, in a cool and dry environment.

## CM-505 PVC Processing Aid

**CM-505** is a new technological product upgraded and synthesized on the basis of CM-85, it has better and faster plasticizing properties than ACR with strong interfacial adhesion between CaCO<sub>3</sub> particles and PVC resin in order to promote CaCO<sub>3</sub> and PVC resin can fully fused together. In addition, It has balance impact strength and toughness property for SPC Floor, the toughness not only can be adjusted freely but also will not influence thermal deformation, dimensional stability and warpage of the SPC Floor.

### Specification

Index	Unit	CM - 505
Appearance	Eye	White Powder
Sieve Residue,40 mesh	%	≥ 98
Tensile Strength	Mpa	10.0 - 12.0
Elongation at Break	%	800
Bulk Density	g/cm <sup>3</sup>	0.45 ± 0.20



### CM - 505

- 100% Replace the CPE135A+ACR
- Less Formula Dosage
- Give SPC floor good strength and toughness
- Promote Secrew Using Life
- Wider processing performance

Package: 25kg by plastic weaved bag.

Store in its original packaging, in a cool and dry environment.

## Lead Stabilizer

BG series pvc stabilizer made by special composite technology which used for PVC Panel, PVC Pipe, PVC Window Profile and etc.

The stabilizers is lubricant one-pack stabilizer, it has good initial coloring, lubricity and weather resistance, suitable for high filling formula. In addition, it is can promote pvc compound plasticization, long thermal stability time, stable reprocessing performance which can reduce mechanical failures and extend the extruder life of 3-5 years.

### Specification

Item	BG-01	BG-02	BG-03	BG-04	BG-500
Appearance	White or yellowish flake				
PbO content, %	23% ± 1.0	28% ± 1.0	35% ± 1.0	40% ± 1.0	29% ± 1.0
Initial melting point,	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
Heating Loss, %	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Recommend Dosage	2.0 - 5.0kg up to formula design				



### Features

- ✓ Excellent thermal stability and weather resistance
- ✓ Good Initial coloring
- ✓ Suitable for different filler formula
- ✓ Promote plasticization, long thermal stability time

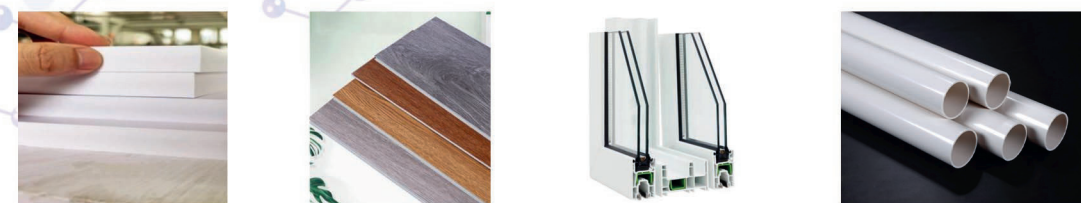
Package: 25kg per bag by plastic weaved bag.

## CA-ZN Stabilizer

Ca-Zn Stabilizer designed by our company's technical team not only include calcium salt, zinc salt, antioxidant but also added coupling agent. So, it is have excellent initial coloring performance, good lubricity and weather resistance which can improve the outdoor use effect of the product, Its coupling agent can promote the mixing materials uniform plasticization and improve the smooth surface and reduce production cost.

### Specification

Index	CZ - 500	CZ - 510	CZ - 520	CZ - 530
Application	Foaming Board	SPC Floor	PVC Profile	PVC Pipe
Appearance	White Powder			
Metal Oxide Content, %	20 ± 1.0	23 ± 1.0	21 ± 1.0	19 ± 1.0
Melting point,	≥ 80 ℃			
Heating Loss, %	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Density (g/ml)	1.15	1.15	1.15	1.15
Recommend Dosage:	3.0 - 5.0 kg	6.0 - 7.0 kg	3.0 - 5.0 kg	3.0 - 5.0 kg



### Features

- ✓ Good dispersion performance,
- ✓ Reduce mechanical wear and extend life
- ✓ Good initial stage coloring and long time thermal stability
- ✓ One Pack Lubricant base
- ✓ Enhance the melt strength and Promote plastiizing

Package: 25kg/bag by plastic bag.



## PVC Processing Aid

It is adopt in-situ grafting of multifunctional groups and core-shell structure, which greatly improve the arrangement of PVC molecules, enhance the intermolecular force, and make the PVC material structure more uniform and stable. Its toughening effect is not only much more better than CPE135A but also improve the surface gloss and tensile strength, completely solved the problem of "softness in summer" and "brittleness in winter" .

### Specification

Item	Unit	CM - 88	CM - 86
Usage		Rigid Plastics	PVC Panel
Appearance	--	White Powder	White Powder
Apparent density	g/cm <sup>3</sup> ,	0.3 ± 0.1	0.5 ± 0.1
Fineness,%	30 mesh	≥ 98	≥ 98
Elongation at break	%	1200 - 1300	780 - 820
Tensile strength	Mpa	≥10	≥8.0
Volatile content	%	≤1.5	1.5
Ash content	%	≤3.0	3.0



### Mainly Advantage

- ① Ensure improve product enough toughness and strength
- ② Improve the low temperature resistance and weather resistance
- ③ Increase the glass transition temperature to make the thermal stability of PVC better
- ④ Less Dosage, Promote Quality
- ⑤ Can adjust the toughness or hardness through dosage.

**Dosage:** 2.0 kg 6.0 kg up to different product and formula.

**Package:** Plastic weaved bag,25kg per bag.

**Storage:** Keep in dry and ventilated warehouse.

## PVC Foaming Regulator

ACR Foaming Regulator are prepared of monomers of acrylate esters by emulsion polymerization at low temperature. These series are applicable to advertising board, highly filling foamed profile, bath cabinet board, dense board, foamed thick board, super-thick board, WPC, building templates, etc.

### Specification

Index	ACR-901	ACR-902	ACR-903
Thickness	1-5mm	5- 15 mm	≥ 15mm
Appearance	White Powder	White Powder	White Powder
Sieve residue, % (30 mesh)	≤2.0	≤2.0	≤2.0
Volatile Content (%)	≤1.3	≤1.3	≤1.3
Intrinsic Viscosity η(25°C)	11.0-12.0	12.50-13.50	14.0 - 15.0
Bulk Density (g/cm <sup>3</sup> )	0.45±0.10	0.45±0.10	0.45±0.10
Molecular Distribution	≤1.100	≤1.100	≤1.100



### Features

1. Promote the melting and improve fusion degree.
2. Improve melt strength and surface gloss.
3. Prevent the bubbles from fusion and rupture.
4. Ensure the uniformity of pore structure and reduce the density of product.
5. Improve the thermal elongation and elasticity of PVC products.

### Application:

It is used for PVC foaming board, WPC foaming panel and etc.

**Package:** 25 kg by plastic weaved bag.

**Storage:** Keep in dry and ventilated warehouse.