

CHLORINATED POLYETHYLENE

Chlorinated polyethylene (CPE) is a versatile thermoplastic primarily used as an impact modifier for PVC, enhancing its flexibility and durability. It also finds applications in various other areas due to its properties like chemical and weather resistance, flexibility, and flame retardancy.

Properties:

Item	Test Method	Units	Standard Value(s)	
			135A (3%)	135A (9%)
Appearance	-	-	White Powder	White Powder
Whiteness	GB2913	%	>80	>80
Chlorine Content	GB/T 9872	wt %	35±1	35±1
Volatile Content	GB/T 2914	wt %	<1	<1
Calcium Content	GB/T 4498	%	<2	<7
Ash Content	GB/T 7139	g/ml	3±1	9±1
Apparent Density	GB/T 4498	%	>0.48	>0.48
Impurities	HG/T 2704	grain/100g	<50	<50
Shore A Hardness	GB/T 531	Ha	<65	<65
Tensile Strength	GB/T 528	Mpa	>6	>6
Break Elongation	GB/T 528	%	>600	>600
Temperature of Thermal Decomposition	HG/T 2704	C	>165	>165
Residue on Sieve (0.9mm mesh)	-	%	<2	<2

Packing: 25 KGs HDPE Bags with Inner Lining or according to requirements

Storage: Store in cool and dry place, 25 - 35 °C recommended, avoid moisture.
Shelf Life: 12 months

Application:

- **Impact Modifier in PVC:**

CPE is a crucial ingredient in rigid PVC (RPVC) and CPVC, improving their impact resistance, tensile strength, and overall physical properties.

- **Wire and Cable Insulation:**

CPE is used as an insulation and jacketing material in cables and wires, offering high-temperature resistance, chemical resistance, and flame retardancy.

- **Automotive Applications:**

CPE is used in automotive seals, door trims, and protective covers due to its heat resistance, corrosion resistance, and flexibility.

- **Hoses:**

CPE is utilized in the production of various hoses, including automotive and industrial hoses.

- **Coatings:**

CPE is used in coatings for roofing and other protective applications, providing enhanced durability and weather resistance.

- **Flexible and Rigid Tubing:**

CPE is a component in both flexible and rigid tubing applications.

- **Other Applications:**

CPE is also used in the medical industry, electronics, and various plastic products, including bags and containers.