Quality manufacturers of Pipe Coating Materials





Copolymer **Adhesive**

Three Layer polyethylene Coating

- 1. Fusion Bonded Epoxy
- 3. Polyethylene

Copolymer Adhesive is a polyolefin based adhesive polymer containing anhydride functionality. It can be in granule form and is mainly used as adhesive layer in 3 layer polyethylene system (3LPE) for steel pipe against corrosion coating system in oil and gas pipeline and high pressure water pipeline. The purpose of the Copolymer Adhesive is to bond the epoxy layer to the top polyethylene coat.

Quanmin Plastic

- Copolymer Adhesive active group may form a bonding of chemical bond with epoxy, and form a polar bonding of intermolecular forc with steel substrate, and its main part of polyolefin may form a combination of homogeneous melt with the PE layer, so as to form a hig
- Copolymer Adhesive has good physical and mechanical properties, electrical insulation properties, and creep resistance.
- Copolymer Adhesive with a process performance the same as thermoplastics, it may be extruded for cladding, wrapped laterally, an made into powder for spraying.

Application

Copolymer Adhesive for 3LPE Systems provide excellent pipeline protection for small and large diameter pipelines with moderate to hig

Can be applied to pipe diameters from 51 mm (2") to over 1220 mm (48").





Pipelines



Small Diameter **Pipelines**



Waterworks **Pipelines**

Technical Data Sheet

No.	property	Uint	Typical Value	Test Method
01	Density	Kg/m³	936	ISO 1872-2/ISO 1183
02	Melt Folw Rate(190°C/2,16 KG)	g/10min	1.3	ISO 1133
03	Tensile Strian Break(50mm/min)	%	730	ISO 527-2
04	Tensile Stress Break(50mm/min)	Мра	27	ISO 527-2
05	Melting temperature(DSC)	℃	122	ISO 3146
06	Melting softening temperatureA50,(10N)	°C	100	ISO 306
07	Brittleness temperature	$^{\circ}$	-80	ASTM D 746
08	Hardness	Shore D	47	ISO 868
09	Peel strength(3 layer)(23℃)	N/cm	210	DIN 30670
10	Peel strength(3 layer)(80°C)	N/cm	65	DIN 30670

Packing, transportation, and storage

- (1) For the packing, paper-plastic compound bag is selected, with 25 kg/bag.
- (2)In the process of transportation, storage, and use: avoid moisture, oil, acid and alkali, exposure, as well as naked fire.
- (3) Validity: 12 months.