

Lushan L-5R (F) Polyethylene Copolymer Adhesive for Steel Pipe Coating

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Copolymer adhesive resin Lushan L-5R series is maleic anhydride grafted polyethylene which could be in granule or powder form. It was developed by Lushan with independent patent technologies and proved with excellent performance in the widely applications of pipeline projects both in China and international market. The purpose of the adhesive is to bond the epoxy layer to the top coat. Copolymer adhesive resin Lushan L-5R series is mainly used as adhesive layer in 3 layers polyethylene system (3LPE) for steel pipe against corrosion coating system in oil and gas pipeline and high pressure water pipeline. Copolymer adhesive resin Lushan L-5R series has good properties such as high bonding strength, long-term stability, wide compatibility, easy processing, etc. Copolymer adhesive resin Lushan L-5R series designed to meet with requirements of the following National and international standards, under the condition that appropriate industrial processing method are applied under a continuous quality control system and when used in combination copolymer adhesive resin Lushan L-5R& polyethylene compound top coats EJ-1 and compatible powder epoxy. Information provided by Lushan

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lushan-L-5R-F-Polyethylene-Copolymer-Adhesive-for-Steel-Pipe-Coating.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D792
Carbon Black Loading	>= 2.0 %	>= 2.0 %	ASTM D1603
Melt Flow	>= 0.17 g/10 min	>= 0.17 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	
	1.5 - 2.5 g/10 min	1.5 - 2.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	
Melt Index of Compound	6.0 g/10 min	6.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
Peel Strength	>= 120 kN/m	>= 685 pli	50+5Â°C; ISO 21809-1
	>= 160 kN/m	>= 913 pli	20+5Â°C; ISO 21809-1

Thermal Properties	Metric	English	Comments
Melting Point	134 Â°C	273 Â°F	ASTM D2117
Maximum Service Temperature, Air	60.0 Â°C	140 Â°F	

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Brittleness Temperature	-70.0 °C	-94.0 °F	ASTM D746

Descriptive Properties	Value	Comments
Appearance	granule	

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