

Lushan L-5R

Polyethylene Copolymer
Guangzhou Lushan New Materials Co., Ltd

Message:

Polyethylene Copolymer Adhesive for Steel Pipe Coating

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 is 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 with copolymer adhesive resin Lushan L-5R& polyethylene compound top coats EJ-1 and a compatible powder epoxy.

NFA 49710
CAN/CSA-Z245.21
DIN 30670S
Draft ISO 21809-1

General Information			
Features	Copolymer		
	Good Processability		
	Good Stability		
Uses	Adhesives		
	Oil/Gas Applications		
	Pipe Coatings		
Agency Ratings	CSA Z245.21		
	DIN 30670		
	ISO 21809-1		
	NF A 49-710		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.930	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Break)	860	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Peel Strength			ISO 21809-1
20°C	> 16.0	kN/m	
50°C	> 13.0	kN/m	

60°C	> 9.0	kN/m	
Operating Temperature	-40 to 60	°C	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	104	°C	ASTM D1525
Peak Melting Temperature	128	°C	ASTM D2117

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

