

Lushan PJ-1

Polypropylene

Guangzhou Lushan New Materials Co., Ltd

Message:

Polypropylene Compounds for Steel Pipe Top Coats

Polypropylene compound for steel pipe top coats Lushan PJ-1 is used for 3LPP coating system in colored white. It is supplied in pellets for melt extrusion or in a powder for application by spray or other special means.

Polypropylene compound for steel pipe top coats Lushan PJ-1 was developed by Guangzhou Hot-melt Adhesive Engineering and Technical R&D Center, and used as top coats anti-corrosion material for 3LPP buried anti-corrosion steel pipe coating or coated steel plastic composite pipes in the application of oil& gas transportation systems and high pressure water pipeline system.

Polypropylene compound for steel pipe top coats Lushan PJ-1 has good properties such as widely processing range, high compatibility with adhesive and excellent mechanical properties, excellent thermal aging resistance and UV protection, etc.

General Information			
Features	Good Thermal Aging Resistance Good UV Resistance		
Uses	Oil/Gas Applications Pipe Coatings		
Appearance	White		
Forms	Pellets Powder		
Processing Method	Extrusion Spraying		
Physical	Nominal Value	Unit	Test Method
Density	0.906	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Water Absorption (Equilibrium, 23°C, 50% RH)	0.030	%	ISO 585
Environmental Stress-Cracking Resistance	1300	hr	ISO 21809-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Heat Aging - 100D (140°C)	23	%	DIN 30678
Oxidation Induction Time (220°C)	32	min	ISO 21809-1
Indentation - Hardness (90°C)	210.0	µm	DIN 30678

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -30.0	°C	ASTM D746
Vicat Softening Temperature	138	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1

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