

RELENE® B 31101

High Density Polyethylene
Reliance Industries Limited

Message:

Relene B 31101 is a high density polyethylene grade with broad molecular weight distribution and good melt strength, suitable for producing compounds for steel pipe coating. This grade has excellent toughness/ESCR and good cut through/abrasion resistance.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Good melt strength		
	Good wear resistance		
	Good toughness		
	Medium wide molecular weight distribution		
Uses	Pipeline coating		
	Coating application		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.943	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.28	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded)	400	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	20.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Constant	2.25		ASTM D150
Dissipation Factor	4.0E-5		ASTM D150
Additional Information			
Oxidation Induction Time, ASTM D3895: >20 min			

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Recommended distributors for this material

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