

Reliance Industries Relene C31101 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Carbon Black Filled

Material Notes:

Steel pipe coating High Density Polyethylene grade. Contains a minimum 2% of well dispersed carbon black.Characteristics:excellent weathering resistance, excellent processability, excellent adhesion. Information provided by Reliance Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Reliance-Industries-Relene-C31101-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.9534 g/cc	0.03444 lb/in ³	ASTM D1505
Water Absorption	<= 0.050 %	<= 0.050 %	at 23°C/50°C; ASTM D570
Environmental Stress Crack Resistance	>= 400 hour	>= 400 hour	F₅₀; ASTM D1693
Oxidative Induction Time (OIT)	>= 65 min	>= 65 min	ASTM D3895
Melt Flow	0.265 g/10 min @Load 2.16 kg	0.265 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	27.0 MPa	3920 psi	ASTM D638
Tensile Strength, Yield	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Flexural Modulus	0.730 GPa	106 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	122 °C	252 °F	ASTM D1525
Brittleness Temperature	-75.0 °C	-103 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.4	2.4	ASTM D1531
Dielectric Strength	>= 30.0 kV/mm	>= 762 kV/in	100 volt/sec; ASTM D149
Dissipation Factor	0.00050	0.00050	ASTM D1531

Electrical Properties

Metric

English

Comments

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