

Reliance Industries Relene W43006 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Relene W43006 is a polyethylene grade recommended for insulation in jelly filled telecommunication cables. This grade contains a special stabilization system for improved thermal resistance. It is designed to provide excellent processability for high speed wire insulating extrusion process, resistance to petroleum jelly absorption, environmental stress cracking resistance and desired electrical insulation properties. Information provided by Reliance Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_Reliance-Industries-Relene-W43006-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.943 g/cc	0.0341 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 500 hour	>= 500 hour	F₀; ASTM D1693/B
Oxidative Induction Time (OIT)	>= 70 min	>= 70 min	ASTM D3895
Melt Flow	0.60 g/10 min @Load 2.16 kg	0.60 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.5 MPa	2680 psi	ASTM D638
Elongation at Break	480 %	480 %	ASTM D638
Flexural Modulus	0.600 GPa	87.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Softening Point	118 °C	244 °F	ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.3	2.3	ASTM D150
Dissipation Factor	0.000040	0.000040	ASTM D150

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