

SCG Chemicals EL-Leneâ„¢ H2001WC High Density Polyethylene Wire & Cable Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , HDPE , Fiber Grade

Material Notes:

Key Characteristics:Excellent environmental stress cracking resistance (ESCR), high mechanical properties, high speed

extrusionRecommended Applications:Jacketing of fiber optical cablesJacketing of power cablesInformation provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H2001WC-High-Density-Polyethylene-Wire-Cable-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.952 g/cc	0.952 g/cc	ASTM D1505
Density of Compound	0.963 g/cc	0.0348 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	>= 10000 hour @Temperature 50.0 Å°C	>= 10000 hour @Temperature 122 Å°F	F0, 25% Igepal; ASTM D1693
Oxidative Induction Time (OIT)	>= 70 min @Temperature 200 Å°C	>= 70 min @Temperature 392 Å°F	ASTM D3895
Carbon Black Loading	2.5 %	2.5 %	ASTM D4218
Melt Flow	0.13 g/10 min @Load 2.16 kg, Temperature 190 Å°C	0.13 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength at Break	33.0 MPa	4790 psi	ASTM D638
Tensile Strength, Yield	23.5 MPa	3410 psi	ASTM D638
Elongation at Break	840 %	840 %	ASTM D638
Flexural Modulus	>= 0.981 GPa	>= 142 ksi	ASTM D790
Izod Impact, Notched	2.06 J/cm @Temperature 23.0 Å°C	3.86 ft-lb/in @Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 Å°C	<= -103 Å°F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.564	2.564	ASTM D1531
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.0050	0.0050	ASTM D1531

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