

SCG Chemicals EL-Leneâ„¢ H5480S High Density Polyethylene Monofilament

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

Material Notes:

Key Characteristics: High tenacity Excellent product color Recommended Applications: Monofilament and flat yarn extrusion for manufacturing of nets, ropes and tarpaulin Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H5480S-High-Density-Polyethylene-Monofilament.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.954 g/cc	0.954 g/cc	ASTM D1505
Environmental Stress Crack Resistance	30 hour @Temperature 50.0 Â°C	30 hour @Temperature 122 Â°F	F50, 25% Igepal; ASTM D1693
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 Â°C	0.80 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	38.2 MPa	5550 psi	ASTM D638
Elongation at Break	1200 %	1200 %	ASTM D638
Flexural Modulus	0.981 GPa	142 ksi	ASTM D790
Izod Impact, Notched	>= 1.37 J/cm @Temperature 0.000 Â°C	>= 2.57 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	>= 1.67 J/cm @Temperature 23.0 Â°C	>= 3.12 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	131 Â°C	268 Â°F	ASTM D2117
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525
Brittleness Temperature	<= -60.0 Â°C	<= -76.0 Â°F	ASTM D746

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