

SCG Chemicals EL-Pro, P400S Polypropylene Flat Yarn/Sheet

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Fiber Grade

Material Notes:

Key Characteristics: High output Good mechanical properties Recommended Applications: Stretched tape Monofilament for woven bag, woven sheet, rope, strap and sheet Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P400S-Polypropylene-Flat-YarnSheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ASTM D1505
Environmental Stress Crack Resistance	>= 500 hour @Temperature 50.0 Å°C	>= 500 hour @Temperature 122 Å°F	F50, 25% Igepal; ASTM D1693
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 230 Å°C	3.5 g/10 min @Load 4.76 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	ASTM D785
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	31.4 MPa	4550 psi	ASTM D638
Elongation at Break	650 %	650 %	ASTM D638
Flexural Modulus	1.32 GPa	192 ksi	ASTM D790
Izod Impact, Notched	0.167 J/cm @Temperature -20.0 Å°C	0.312 ft-lb/in @Temperature -4.00 Å°F	ASTM D256
	0.245 J/cm @Temperature 0.000 Å°C	0.459 ft-lb/in @Temperature 32.0 Å°F	ASTM D256
	0.392 J/cm @Temperature 23.0 Å°C	0.735 ft-lb/in @Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	163 Å°C	325 Å°F	ASTM D2117

Thermal Properties Deflection Temperature at 0.46 MPa (264 psi)	Metric 110 Â°C	English 230 Â°F	Comments ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	ASTM D648
Vicat Softening Point	155 Â°C	311 Â°F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	50 % @Thickness 1.00 mm	50 % @Thickness 0.0394 in	ASTM D1003
Gloss	85 % @Thickness 1.00 mm	85 % @Thickness 0.0394 in	ASTM D2457

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