

SCG Chemicals EL-Pro, P440J Polypropylene Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Key Characteristics:Excellent impact strength
Suitable for small to medium parts
Recommended Applications:High impact and durable automotive, motorcycle and electrical appliance parts such as fan stand, motor back cover
Industrial containers such as paint pails
Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P440J-Polypropylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ASTM D1505
Linear Mold Shrinkage, Flow	0.0119 cm/cm @Thickness 2.00 mm	0.0119 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0105 cm/cm @Thickness 2.00 mm	0.0105 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 Â°C	5.0 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	60	60	ASTM D785
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	26.5 MPa	3840 psi	ASTM D638
Elongation at Break	520 %	520 %	ASTM D638
Flexural Modulus	1.13 GPa	164 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm @Temperature -20.0 Â°C	0.918 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	0.588 J/cm @Temperature 0.000 Â°C	1.10 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	1.18 J/cm @Temperature 23.0 Â°C	2.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	163 Â°C	325 Â°F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C	131 Â°F	ASTM D648
Vicat Softening Point	150 Â°C	302 Â°F	ASTM D1525
Brittleness Temperature	-20.0 Â°C	-4.00 Â°F	ASTM D746
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	80 %	80 %	ASTM D1003
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Gloss	30 %	30 %	ASTM D2457
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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