

SCG Chemicals EL-Pro, P640J Polypropylene Injection Molding

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

Material Notes:

Key Characteristics: Good flowability, High stiffness, High impact strength
Recommended Applications: High impact electrical appliance parts, automotive and motorcycle parts such as fan stand, washing tub
 Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P640J-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	0.0125 cm/cm @Thickness 2.00 mm	0.0125 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0109 cm/cm @Thickness 2.00 mm	0.0109 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 Â°C	10 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	27.5 MPa	3980 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Flexural Modulus	1.18 GPa	171 ksi	ASTM D790
Izod Impact, Notched	0.392 J/cm @Temperature -20.0 Â°C	0.735 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	0.490 J/cm @Temperature 0.000 Â°C	0.918 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	0.981 J/cm @Temperature 23.0 Â°C	1.84 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)	105 Â°C	221 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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