

SCG Chemicals EL-Pro, P642J Polypropylene Injection Molding

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

Material Notes:

Key Characteristics: Good flowability, Excellent stiffness, High impact strength, Mechanical property balance, Contains UV stabilizer and anti-static agent.
Recommended Applications: Industrial and household product with combined need of high stiffness and toughness, Electrical appliance parts mainly for washing tub, Battery case, Automotive and motorcycle parts.
 Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P642J-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	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0121 cm/cm @Thickness 2.00 mm	0.0121 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	75	75	ASTM D785
Tensile Strength at Break	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	27.5 MPa	3980 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Flexural Modulus	1.37 GPa	199 ksi	ASTM D790
Izod Impact, Notched	0.392 J/cm @Temperature -20.0 °C	0.735 ft-lb/in @Temperature -4.00 °F	ASTM D256
	0.588 J/cm @Temperature 0.000 °C	1.10 ft-lb/in @Temperature 32.0 °F	ASTM D256
	0.981 J/cm @Temperature 23.0 °C	1.84 ft-lb/in @Temperature 73.4 °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)	110 Â°C	230 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	ASTM D648
Brittleness Temperature	-20.0 Â°C	-4.00 Â°F	ASTM D746

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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