

SCG Chemicals EL-Pro, P842J Polypropylene Injection Molding

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

Material Notes:

Key Characteristics:Excellent flowabilityExcellent processabilityExcellent stiffnessSuitable for complex parts and large parts
Recommended Applications:Electrical appliance parts, mainly for refrigerator parts and washing machine parts, e.g. base, tub, control panel
Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P842J-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	0.0144 cm/cm @Thickness 2.00 mm	0.0144 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 230 Â°C	40 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength at Break	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	28.9 MPa	4200 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Modulus	1.42 GPa	206 ksi	ASTM D790
Izod Impact, Notched	0.343 J/cm @Temperature -20.0 Â°C	0.643 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	0.441 J/cm @Temperature 0.000 Â°C	0.827 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	0.588 J/cm @Temperature 23.0 Â°C	1.10 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)	115 Â°C	239 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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