

SCG Chemicals EL-Pro, P701J Polypropylene Injection Molding

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

Material Notes:

Key Characteristics: High stiffness High gloss High productivity Good processability Odorless Safe for food contact Recommended

Applications: General purpose housewares Food containers Medical instruments Infant articles, toys Office accessories Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P701J-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	0.012 cm/cm @Thickness 2.00 mm	0.012 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.012 cm/cm @Thickness 2.00 mm	0.012 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 Â°C	12 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	31.4 MPa	4550 psi	ASTM D638
Elongation at Break	650 %	650 %	ASTM D638
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	0.196 J/cm @Temperature 23.0 Â°C	0.367 ft-lb/in @Temperature 73.4 Â°F	ASTM D256
	0.196 J/cm @Temperature 0.000 Â°C	0.367 ft-lb/in @Temperature 32.0 Â°F	ASTM D256

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

Thermal Properties Deflection Temperature at 0.46 MPa (100 psi)	Metric 110 Â°C	English 230 Â°F	Comments ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C	149 Â°F	ASTM D648
Vicat Softening Point	155 Â°C	311 Â°F	ASTM D1525
Brittleness Temperature	-20.0 Â°C	-4.00 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	47 % @Thickness 1.00 mm	47 % @Thickness 0.0394 in	ASTM D1003
Gloss	51 % @Thickness 1.00 mm	51 % @Thickness 0.0394 in	ASTM D2457

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