

SCG Chemicals EL-Pro, P851JO Polypropylene Injection Molding

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

Material Notes:

Key Characteristics: Good processability, High gloss and brightness, Odorless, Safe for food contact
 Recommended Applications: Clear food container, Clear large size container, Thin wall products
 Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P851JO-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	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 Â°C	20 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	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	31.4 MPa	4550 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	1.23 GPa	178 ksi	ASTM D790
Izod Impact, Notched	0.392 J/cm @Temperature 0.000 Â°C	0.735 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	0.637 J/cm @Temperature 23.0 Â°C	1.19 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	150 Â°C	302 Â°F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	ASTM D648

Thermal Properties	Metric	English	Comments
Compression Temperature at 1.8 MPa (264 psi)	90.0 Â°C	122 Â°F	ASTM D648
Vicat Softening Point	130 Â°C	266 Â°F	ASTM D1525
Brittleness Temperature	-20.0 Â°C	-4.00 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	9.0 % @Thickness 1.00 mm	9.0 % @Thickness 0.0394 in	ASTM D1003
Gloss	87 % @Thickness 1.00 mm	87 % @Thickness 0.0394 in	ASTM D2457

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