

SCG Chemicals EL-Pro™ P441JU Polypropylene Injection Molding

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

Material Notes:

Key Characteristics: Excellent impact strength Contains UV stabilizer and anti-static agent Suitable for small to medium parts Recommended

Applications: High impact and durable automotive and electrical appliance parts Pallet Outdoor parts that require long service

life Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Pro-P441JU-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	0.0119 cm/cm @Thickness 2.00 mm	0.0119 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0105 cm/cm @Thickness 2.00 mm	0.0105 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	60	60	ASTM D785
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	26.5 MPa	3840 psi	ASTM D638
Elongation at Break	520 %	520 %	ASTM D638
Flexural Modulus	1.13 GPa	164 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm @Temperature -20.0 °C	0.918 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
	1.18 J/cm @Temperature 23.0 °C	2.20 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	163 °C Metric	325 °F English	ASTM D2117 Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	ASTM D1525
Brittleness Temperature	-20.0 °C	-4.00 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	80 % @Thickness 1.00 mm	80 % @Thickness 0.0394 in	ASTM D1003
Gloss	30 % @Thickness 1.00 mm	30 % @Thickness 0.0394 in	ASTM D2457

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