

SCG Chemicals EL-Leneâ„¸ H5818J High Density Polyethylene Injection Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

Key Characteristics: Good processability High stiffness High impact strength Balanced properties between shrinkage and warpage Odorless Safe for food contact
Recommended Applications: General purpose injection parts such as utensils, office articles, bottle caps, toy parts
 Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H5818J-High-Density-Polyethylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.962 g/cc	0.962 g/cc	ASTM D1505
Environmental Stress Crack Resistance	2.0 hour @Temperature 50.0 Å°C	2.0 hour @Temperature 122 Å°F	F50, 25% Igepal; ASTM D1693
Linear Mold Shrinkage, Flow	0.0202 cm/cm @Thickness 2.00 mm	0.0202 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0246 cm/cm @Thickness 2.00 mm	0.0246 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 190 Å°C	18 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	27.0 MPa	3920 psi	ASTM D638
Tensile Strength, Yield	15.7 MPa	2280 psi	ASTM D638
Elongation at Break	150 %	150 %	ASTM D638
Flexural Modulus	1.27 GPa	185 ksi	ASTM D790
Izod Impact, Notched	>= 0.245 J/cm @Temperature 23.0 Å°C	>= 0.459 ft-lb/in @Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	131 Å°C	268 Å°F	ASTM D2117

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 Â°C	167 Â°F	ASTM D648
Vicat Softening Point	122 Â°C	252 Â°F	ASTM D1525
Brittleness Temperature	-60.0 Â°C	-76.0 Â°F	ASTM D746

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