

SCG Chemicals EL-Leneâ,,ç H6105JU High Density Polyethylene Injection Molding

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

Material Notes:

Key Characteristics: Good processability, Wide service temperature, High rigidity, Good weathering resistance (UV stabilizer), Recommended

Applications: Crates for soft drinks, bottles, pallet, garbage bins, containers, Industrial parts for outdoor uses such as motorcycle

fenders, Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H6105JU-High-Density-Polyethylene-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.961 g/cc	0.961 g/cc	ASTM D1505
Environmental Stress Crack Resistance	4.0 hour @Temperature 50.0 Å°C	4.0 hour @Temperature 122 Å°F	F50, 25% Igepal; ASTM D1693
Linear Mold Shrinkage, Flow	0.0169 cm/cm @Thickness 2.00 mm	0.0169 in/in @Thickness 0.0787 in	TPE Method
Linear Mold Shrinkage, Transverse	0.0116 cm/cm @Thickness 2.00 mm	0.0116 in/in @Thickness 0.0787 in	TPE Method
Melt Flow	5.5 g/10 min @Load 2.16 kg, Temperature 190 Å°C	5.5 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	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	23.5 MPa	3410 psi	ASTM D638
Elongation at Break	1100 %	1100 %	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	133 Å°C	271 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	127 Â°C	261 Â°F	ASTM D1525
Brittleness Temperature	-60.0 Â°C	-76.0 Â°F	ASTM D746

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