

LG Chemical LUCEL HI520 POM+Rubber, High Impact

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Feature: Injection Molding, POM+Rubber, High Impact
Application: Gears
CAS No. 66455-31-0 and 155123-66-3
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-HI520-POMRubber-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Maximum Moisture Content	0.10	0.10	Injection Molding
Linear Mold Shrinkage, Flow	0.017 - 0.020 cm/cm @Thickness 3.20 mm	0.017 - 0.020 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	7.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	60	60	ASTM D785
Tensile Strength, Yield	41.2 MPa @Thickness 3.20 mm	5970 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	150 % @Thickness 3.20 mm	150 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	1.47 GPa @Thickness 3.20 mm	213 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.77 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	3.31 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C @Thickness 6.40 mm	275 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties Dimensional Change at 1.8 MPa (264 psi)	Metric 85.0 Â°C	English 185 Â°F	Comments Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	Injection Molding
Middle Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
Front Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Nozzle Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Melt Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Mold Temperature	80.0 - 110 Â°C	176 - 230 Â°F	Injection Molding
Drying Temperature	90.0 - 110 Â°C	194 - 230 Â°F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Back Pressure	0.490 - 3.04 MPa	71.1 - 441 psi	Injection Molding
Screw Speed	50 - 100 rpm	50 - 100 rpm	Injection Molding

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