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LG Chemical® ER460

Feature: Injection Molding, Medium Heat Resistance, High Flowability
Application: Automobile, Motor Cycle, Electric & Electronic Goods
CAS No. 9003-56-9

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	23 g/10 min @Load 10.0 kg, Temperature 220 °C	23 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	48.1 MPa @Thickness 3.20 mm	6970 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	50 % @Thickness 3.20 mm	50 % @Thickness 0.126 in	50 mm/min; ASTM D638
Tensile Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	1 mm/min; ASTM D638
Flexural Yield Strength	78.5 MPa @Thickness 3.20 mm	11400 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.45 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	4.59 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	2.45 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	4.59 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	1.08 J/cm @Thickness 6.40 mm, Temperature -30.0 °C	2.02 ft-lb/in @Thickness 0.252 in, Temperature -22.0 °F	ASTM D256
	1.18 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	2.20 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256