

LG Chemical LUXY KS G55 Amorphous PA6

Category : Polymer , Thermoplastic , Nylon , Amorphous Nylon

Material Notes:

Description: Injection Molding, Amorphous PA6, High Modulus, High Impact, Low Warpage
Application: Electric/Electronic Components (LCD Bracket)
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUXY-KS-G55-Amorphous-PA6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00030 - 0.0015 cm/cm	0.00030 - 0.0015 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	6.0 %	6.0 %	5mm/min; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Yield Strength	281 MPa	40800 psi	1.3mm/min; ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Modulus	13.0 GPa	1890 ksi	1.3mm/min; ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	
Izod Impact, Notched	1.57 J/cm	2.94 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	HB	HB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	HB	HB	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	HB	HB	

Thermal Properties	Metric @ Thickness >=3.20 mm	English @ Thickness >=0.126 in	Comments
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Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 300 °C	536 - 572 °F	Injection Molding
Middle Barrel Temperature	280 - 300 °C	536 - 572 °F	Injection Molding
Front Barrel Temperature	280 - 300 °C	536 - 572 °F	Injection Molding
Nozzle Temperature	280 - 320 °C	536 - 608 °F	Injection Molding
Melt Temperature	280 - 300 °C	536 - 572 °F	Injection Molding
Mold Temperature	80.0 - 100 °C	176 - 212 °F	Injection Molding
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	50 - 150 rpm	50 - 150 rpm	Injection Molding

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