

Technical Data

Product Description		
Description General Purpose		
Applications Electric & Electronic (Housing, Components)		
General		
Material Status	• Commercial: Active	
Literature ¹	• Technical Datasheet (English)	
UL Yellow Card ²	• E248280-322208 • E302314-530178 • E67171-301076 • E67171-248378	
Search for UL Yellow Card	• LG Chem Ltd. • Lupos®	
Availability	• Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Features	• General Purpose	
Uses	• Electrical Housing	• Electrical/Electronic Applications
Automotive Specifications	• GM GMP.ABS.011	
Processing Method	• Injection Molding	
Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.19 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow 23°C, 3.20 mm, Injection Molded	0.10 to 0.30 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁴ Yield, 23°C, 3.20 mm, Injection Molded	83.4 MPa	ASTM D638
Tensile Elongation ⁴ Break, 23°C, 3.20 mm, Injection Molded	3.0 %	ASTM D638
Flexural Modulus ⁵ 23°C, 3.20 mm, Injection Molded	4900 MPa	ASTM D790
Flexural Strength ⁵ 23°C, 3.20 mm, Injection Molded	118 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact 23°C, 6.40 mm, Injection Molded	69 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness R-Scale, 23°C, Injection Molded	115	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm, Injection Molded	98.0 °C	ASTM D648
RTI Elec	60.0 °C	UL 746
RTI Imp	60.0 °C	UL 746
RTI Str	60.0 °C	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm)	HB	UL 94



Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	3.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	220 to 235 °C
Middle Temperature	220 to 240 °C
Front Temperature	220 to 240 °C
Nozzle Temperature	230 to 245 °C
Processing (Melt) Temp	235 to 245 °C
Mold Temperature	50 to 80 °C
Back Pressure	0.981 to 3.92 MPa
Screw Speed	40 to 80 rpm

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 5.0 mm/min

⁵ 1.3 mm/min

