

Lupos® GP2100

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Saturday, July 20, 2019

General Information

Product Description

Description
General Purpose

Applications
Electric & Electronic (Housing, Components)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• General Purpose
Uses	• Electrical Housing • Electrical/Electronic Applications • General Purpose
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	2.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.20 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	58.8	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	5.0	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	3730	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm, Injection Molded)	88	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	114		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm	97.0	°C	
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

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 100	°C

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Injection	Nominal Value	Unit
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 Typical properties: these are not to be construed as specifications.

² 5.0 mm/min

³ 1.3 mm/min