



Lupos® HR2207A

LG Chem Ltd. - Acrylonitrile Butadiene Styrene

Friday, May 24, 2019

General Information

Product Description

Description

General Purpose, Heat Resistance

Application

Electric & Electronic (Housing, Components)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• General Purpose • Good Heat Resistance
Uses	• Electrical Housing • Electrical/Electronic Applications
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21	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)	0.20 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	78.5	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	2.5	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	60000	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	39	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 ⁴			ASTM D648
0.45 MPa, Unannealed, 6.40 mm, Injection Molded	105	°C	

Processing Information

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

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Injection	Nominal Value	Unit
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

⁴ 18.6kg