



Lupoy® NS5002

LG Chem Ltd. - Polycarbonate + ABS

Saturday, July 20, 2019

General Information

Product Description

Description
High Flow, High Impact

Application
Automotive (Interior), E&E (Housing)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• High Flow • High Impact Resistance
Uses	• Automotive Applications • Automotive Interior Parts • Electrical Housing • Electrical/Electronic Applications
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	7.3	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	52.0	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	120	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	2110	MPa	ASTM D790
Flexural Strength ³ (23°C, 3.20 mm, Injection Molded)	76.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	690	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, Injection Molded	104	°C	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 100	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	240 to 270	°C
Middle Temperature	245 to 275	°C
Front Temperature	245 to 275	°C

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Injection	Nominal Value	Unit
Nozzle Temperature	245 to 275	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	50 to 70	°C
Back Pressure	0.490 to 1.96	MPa
Screw Speed	40 to 70	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 10 mm/min