Lupoy® GP5008BFH

LG Chem Ltd. - Polycarbonate + ABS

Friday, May 24, 2019

General Information

Product Description	
Description	Flame Retardance, High Flow, Heat Resistant, High Impact
Application	E&E(Housing)

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Additive	• Flame Retardant	
Features	• Flame Retardant • Good Heat Resistance	• High Flow • High Impact Resistance
Uses	• Electrical Housing	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2]			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	54.9	MPa	
Tensile Elongation [2]			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	80	%	
Flexural Modulus [3] (23°C, 3.20 mm, Injection Molded)	2400	MPa	ASTM D790
Flexural Strength [3] (23°C, 3.20 mm, Injection Molded)	89.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	540	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	113		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	123	°C	
RTI Elec	85.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	70.0	°C	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
2.5 mm	V-0		
3.0 mm	V-0		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	75 to 85	°C
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 to 240	°C
Middle Temperature	235 to 255	°C
Front Temperature	250 to 265	°C
Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	235 to 265	°C
Mold Temperature	50 to 80	°C
Back Pressure	0.0196 to 0.0588	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