Lupoy® GP5001AF

LG Chem Ltd. - Polycarbonate + ABS

Saturday, July 20, 2019

General Information

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Flame Retardant • General Purpose • Good Dimensional Stability	• Good Impact Resistance • Good Processability • High Heat Resistance	• UV Resistant
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	58.8	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	2400	MPa	ASTM D790
Flexural Strength (Yield)	96.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	490	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	105	°C	
CLTE - Flow	8.8E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	9.0E-3		ASTM D150
Arc Resistance (1.59 mm)	100	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.6 mm)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100 to 110	°C
Drying Time	3.0 to 5.0	hr
Rear Temperature	220 to 235	°C
Middle Temperature	230 to 240	°C
Front Temperature	235 to 245	°C
Nozzle Temperature	235 to 250	°C

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Injection	Nominal Value	Unit
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	60 to 100	°C
Injection Pressure	58.8 to 118	MPa
Back Pressure	0.00 to 3.92	MPa
Screw Speed	40 to 90	rpm

Notes

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