

Lupoy® GP5006AF

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

Flame Retardant

Application

Electric and Electronic Housing and Components

General Information			
UL YellowCard	E302314-530047	E248280-533899	E353371-101107249
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
UL File Number	E67171		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	5.0 to 8.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	60	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	440	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	104	°C	ASTM D648
RTI Elec			UL 746
--	60.0	°C	
0.750 mm	85.0	°C	
1.70 mm	85.0	°C	
3.00 mm	85.0	°C	
RTI Imp			UL 746
--	60.0	°C	
0.750 mm	75.0	°C	
1.70 mm	75.0	°C	
3.00 mm	75.0	°C	

RTI Str			UL 746
--	60.0	°C	
0.750 mm	75.0	°C	
1.70 mm	75.0	°C	
3.00 mm	75.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	34	kV/mm	ASTM D149
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
Arc Resistance (3.00 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (3.00 mm)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.70 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Resistance to Ignition (HVAR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI)			UL 746
1.70 mm	PLC 3		
3.00 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.70 mm	V-0		
	V-0		
3.00 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 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	
Nozzle Temperature	245 to 275	°C	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
Back Pressure	0.981 to 3.92	MPa	
Screw Speed	40 to 70	rpm	
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	10 mm/min
4.	10 mm/min

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