

Lumax® GN5006FC

Acrylonitrile Butadiene Styrene + PBT
LG Chem Ltd.

Message:

Description
Halogen Free Flame Retardant
Applications
IT/OA, E&E

General Information			
UL YellowCard	E248280-100468284		
Features	Flame Retardant		
	Halogen Free		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	47.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	13	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2260	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	70.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	80.0	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.20 mm	V-2		
1.50 mm	V-2		
3.00 mm	V-2		
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	220 to 230	°C
Middle Temperature	225 to 235	°C
Front Temperature	225 to 235	°C
Nozzle Temperature	230 to 245	°C
Processing (Melt) Temp	230 to 245	°C
Mold Temperature	40.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.010	%
Cylinder Zone 1 Temp.	215 to 235	°C
Cylinder Zone 2 Temp.	225 to 245	°C
Cylinder Zone 3 Temp.	225 to 245	°C
Cylinder Zone 4 Temp.	225 to 245	°C
Adapter Temperature	225 to 245	°C
Melt Temperature	215 to 245	°C
Die Temperature	215 to 235	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	2.8 mm/min	
4.	2.8 mm/min	

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