

Lumiloy® TX5300

Polyphenylene Ether + PS + Nylon

LG Chem Ltd.

Message:

Injection Molding Grade, High Flow PPO/PA Alloy

Description

GF 30% Reinforcement, High Flow, High Heat Resistance

Application

Electric and Electronic parts

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	High Flow		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (285°C/5.0 kg)	41	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	149	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	8.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6960	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	203	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	93	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	256	°C	
1.8 MPa, Unannealed, 6.40 mm	241	°C	
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	6.0 to 8.0	hr	
Suggested Max Moisture	> 0.050	%	
Rear Temperature	270 to 300	°C	
Middle Temperature	280 to 320	°C	
Front Temperature	280 to 320	°C	
Nozzle Temperature	285 to 325	°C	
Processing (Melt) Temp	280 to 320	°C	
Mold Temperature	50.0 to 100	°C	

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	2.8 mm/min
4.	2.8 mm/min

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