

Lumiloy® TX5002

Polyphenylene Ether + PS + Nylon

LG Chem Ltd.

Message:

Injection Molding Grade, High Flow PPO/PA Alloy
Description
High Flow, High Heat Resistance
Application
Electric and Electronic parts

General Information			
Features	High Flow		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (285°C/5.0 kg)	68	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	62.8	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (Break, 3.20 mm)	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	160	J/m	
23°C, 3.20 mm	210	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	186	°C	ASTM D648
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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

