



Lumiloy® TX5002

LG Chem Ltd. - Polyphenylene Ether + PA

Saturday, July 20, 2019

General Information

Product Description

Injection Molding Grade, High Flow PPO/PA Alloy

Description

High Flow

High Heat Resistance

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• High Flow	• High Heat Resistance
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (285°C/2.16 kg)	22	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	65.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus ²	2450	MPa	ISO 178
Flexural Stress ²	98.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	19	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (0.45 MPa, Unannealed)	175	°C	ISO 75-2/Be

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 100	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	260 to 300	°C
Middle Temperature	270 to 310	°C
Front Temperature	270 to 310	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	280 to 320	°C
Mold Temperature	70 to 110	°C

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Notes

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

² 2.0 mm/min

³ 80*10*4mm

⁴ 120*10*4mm