

Lupox® TE5100

Polycarbonate + PBT

LG Chem Ltd.

Message:

Description

High Impact resistant, Dimensional Stability

Application

Automotive(Bumper Back Beam)

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Dimensional Stability		
	High Impact Resistance		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 to 0.90	%	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)	86.3	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	4120	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 6.40 mm)	132	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	74	J/m	
23°C, 6.40 mm	95	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	120	°C	ASTM D648
Peak Melting Temperature	223	°C	ASTM D3418
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 to 5.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	250 to 260	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	255 to 265	°C	

Nozzle Temperature	260 to 270	°C
Processing (Melt) Temp	260 to 270	°C
Mold Temperature	60.0 to 80.0	°C

NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	5.0 mm/min	
4.	5.0 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



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