Lupox® GP1000H Polybutylene Terephthalate

LG Chem Ltd.

Technical Data

Product Description			
High Flow, Good Impact			
Application Automotive(Connector)			
Material Type PBT			
General			
Material Status	Commercial: Active		
UL Yellow Card ¹	 E248280-533890 E353371-103960934 E515076-104348493 E67171-248566 		
Search for UL Yellow Card	 LG Chem Ltd. Lupox® 		
Availability	Asia PacificEurope	Latin AmericaNorth America	
Features	Good Impact Resistance	High Flow	
Uses	Automotive Electronics	-	
Physical		Nominal Value Unit	Test Method
Density / Specific Gravity		1.29 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)		46 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)		1.2 to 2.0 %	ASTM D955
Water Absorption (24 hr, 23°C, 50% RH)	0.080 %	ASTM D570
Vechanical		Nominal Value Unit	Test Method
Tensile Strength ³ (Break, 3.20 mm)		47.1 MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)		> 100 %	ASTM D638
Flexural Modulus ⁴ (3.20 mm)		2060 MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)		73.5 MPa	ASTM D790
mpact		Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)		49 J/m	ASTM D256
Thermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm		58.0 °C	
Ball Pressure Test (125°C)		Pass	IEC 60695-10-2
Peak Melting Temperature		223 °C	ASTM D3418
RTI Elec		140 °C	UL 746B
RTI Imp		130 °C	UL 746B
RTI Str		140 °C	UL 746B
Electrical		Nominal Value Unit	Test Method
Volume Resistivity (23°C)		1.0E+19 ohms · cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)		23 kV/mm	ASTM D149
Arc Resistance		PLC 5	ASTM D495
Flammability		Nominal Value Unit	Test Method
Flame Rating		115	UL 94
0.71 mm		HB	
1.5 mm		HB	
5 5 0000		HK	

3.3 mm

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¹ of 3

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njection	Nominal Value Unit	
Drying Temperature	90 to 110 °C	
Drying Time	4.0 to 6.0 hr	
Suggested Max Moisture	0.020 %	
Rear Temperature	230 to 250 °C	
Middle Temperature	230 to 250 °C	
Front Temperature	230 to 250 °C	
Nozzle Temperature	240 to 260 °C	
Processing (Melt) Temp	223 °C	
Mold Temperature	60 to 100 °C	

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ 2.5 mm/min



2 of 3

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Lupox® GP1000H

Polybutylene Terephthalate LG Chem Ltd.

Where to Buy

Supplier

LG Chem Ltd. Englewood Cliffs, Englewood Cliffs USA Telephone: 201-816-2302 Web: http://www.chemwide.com/

Distributor

Chase Plastic Services, Inc. Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http:// www.chaseplastics.com/contact/locations Telephone: 800-232-4273 Web: http://www.chaseplastics.com/ Availability: North America

Conventus Polymers

Telephone: 973-343-7669 Web: http://www.conventuspolymers.com/ Availability: North America

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country. Telephone: 08452003040 Web: http://www.distrupol.com/ Availability: Belgium, Denmark, Finland, Luxembourg, Netherlands, Norway, Sweden

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country. Telephone: +33-4-67-49-55-37

Web: http://www.gazechim.com/ Availability: France, Italy

Resin Resource, Inc.

Telephone: 877-652-3431 Web: http://www.resinresourceinc.com/ Availability: North America

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country. Telephone: +32-14-672511 Web: http://www.resinex.com/ Availability: Europe

SNETOR Distribution

SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country. Telephone: +33-1-4904-8888 Web: http://www.snetor.com/ Availability: France

3 of 3

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