

Lupox® LW5303

Polybutylene Terephthalate

LG Chem Ltd.

Message:

Description
Low Warpage
Application
E&E item

General Information			
UL YellowCard	E67171-248588		
Features	Low Warpage		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Specific Heat vs. Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	123	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8040	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	181	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	69	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	210	°C	
1.8 MPa, Unannealed, 6.40 mm	200	°C	
Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746

Flammability	Nominal Value	Test Method
--------------	---------------	-------------

Flame Rating (0.720 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	4.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	240 to 255	°C
Middle Temperature	245 to 255	°C
Front Temperature	250 to 260	°C
Nozzle Temperature	250 to 260	°C
Processing (Melt) Temp	245 to 260	°C
Mold Temperature	60.0 to 100	°C
NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

