

Lupox® LW5303F

Polycarbonate + PBT

LG Chem Ltd.

Message:

Description

Flame Retardant, Low Warpage

Applications

IT/OA, E&E, Automotive

General Information			
UL YellowCard	E302314-100858203	E67171-248589	E353371-101107287
Filler / Reinforcement	Glass fiber reinforced material		
Additive	Flame retardancy		
Features	Low warpage		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Switch		
	Application in Automobile Field		
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	1.55	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 - 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 3.20 mm)	132	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8830	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	190	°C	ASTM D648

Peak Melting Temperature	223	°C	ASTM D3418
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	130	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (0.710 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	240 - 245	°C	
Middle Temperature	245 - 250	°C	
Front Temperature	250 - 255	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	250 - 265	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection instructions			
Minimum Moisture Content: 0.02%			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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