

# LUPOX LW5303F

Injection Molding, PBT+PC+GF30%

## Description

Flame Retardant, Low Warpage

## Application

IT/OA, E&E, Automotive

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.55
Molding Shrinkage		ASTM D955	%	0.3 ~ 0.9
Melt Flow Rate	250 °C/2.16kg	ASTM D1238	g/10min	6
Water Absorption	23 °C, 24hrs	ASTM D570	%	0.08
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Break	5mm/min		kg/cm <sup>2</sup>	1,350
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	5mm/min		%	-
@ Break	5mm/min		%	2.0
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	1,950
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	90,000
IZOD Impact Strength, 6.4mm (Notched)	23 °C	ASTM D256	kg·cm/cm	8.0
<b>Thermal</b>				
Melt Temperature		ASTM D3418	°C	223
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	190
	4.6kg		°C	
Flammability 0.71mm		UL94	class	V-0
Relative Temperature Index		UL 746B		
Electrical			°C	130
Mechanical with Impact			°C	130
Mechanical without Impact			°C	130
<b>Electrical</b>				
Comparative Tracking Index(CTI)	Solution A	UL 746	PLC	
Volume Resistivity	23 °C	ASTM D257	Ohm·cm	
Arc Resistance	23 °C	ASTM D495	PLC	
Dielectric Strength, 1mm	23 °C	ASTM D149	kV/mm	

Note) All properties, except melt flow rate are measured on injection molded specimens and after 48 hours storage at 23 °C, 50% relative humidity.

Updated : 1-Jul-14

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### Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	110 ~ 120
Drying Time		hrs	4 ~ 6
Maximum Moisture Content		%	0.02
Melt Temperature		°C	250 ~ 265
Cylinder Temperature	Rear	°C	240 ~ 245
	Middle	°C	245 ~ 250
	Front	°C	250 ~ 255
Nozzle Temperature		°C	250 ~ 265
Mold Temperature		°C	40 ~ 80
Back Pressure		kg/cm <sup>2</sup>	-
Screw Speed		rpm	-

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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