



LUPOX GP2206F

Injection Molding, PBT+20%GF

Description Flame Retardant

Application IT/OA, E&E

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.58
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~1.0
Melt Flow Rate	250℃/2.16kg	ASTM D1238	g/10min	-
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	5mm/min		kg/cm ²	1100
Tensile Elongation, 3.2mm		ASTM D638	Gr -	
@ Yield	5mm/min		%	
@ Break	5mm/min		%	3
Tensile Modulus, 3.2mm	5mm/min	ASTM D638	kg/cm ²	-
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	1,700
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	60,000
IZOD Impact Strength, 6.4mm		ASTM D256	<u> </u>	
(Notched)	23 ℃		kg-cm/cm	6
	-30 ℃		kg-cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Melt Temperature @ Break		ASTM D3418	°C	-
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		$^{\circ}$	200
,	4.6kg		$^{\circ}$	210
Vicat Softening Temperature		ASTM D1525		
ű i	5kg, 50 ℃/h		$^{\circ}$	
Ball Pressure Temperature	<u>G</u> ,	IEC 60695-10-2	°C	
Burning Rate, 3.2mm		FMVSS 302	mm	
Flammability		UL94		
0.71mm			class	V-0
1.5mm			class	V-0
3.0mm			class	V-0
Relative Temperature Index		UL 746B		
Electrical			$^{\circ}$	130
Mechanical with Impact			$^{\circ}$ C	130
Mechanical without Impact			$^{\circ}$	140

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Updated : Oct-30, 2012

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Values given should not be interpreted as specification and not be used for part or tool design.

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





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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙m	1.0E+16
Arc Resistance	23 ℃	ASTM D495	Ohm-cm	-
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	23
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150	sec	-

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Processing Guide (Injection Molding)

Processi	ng Parameters	Unit	Value
Drying Temperature		$^{\circ}\mathbb{C}$	120
Drying Time		hrs	4~5
Minimum Moisture Content		%	0.02
Melt Temperature		$^{\circ}\mathbb{C}$	245~255
Cylinder Temperature	Rear	$^{\circ}\mathbb{C}$	235 ~ 250
	Middle	$^{\circ}\! \mathbb{C}$	240 ~ 250
	Front	$^{\circ}\! \mathbb{C}$	245 ~ 255
Nozzle Temperature		$^{\circ}\mathbb{C}$	245 ~ 255
Mold Temperature		$^{\circ}\mathbb{C}$	60 ~ 100
Back Pressure		kg/cm ²	-
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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