



LUPOX GP1000DS-K4KA02

Injection Molding, PBT

Dielectric Strength, 1mm

Description

Application

General Purpose

Automotive(Head Lamp Bezel)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.31
Water Absorption	23℃, 24hrs	ASTM D570	%	0.04
Molding Shrinkage	2mm	ASTM D955	%	1.8 ~ 2.0
Melt Flow Rate	250℃/2.16kg	ASTM D1238	g/10min	43
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	5mm/min		kg/cm ²	560
Tensile Elongation, 3.2mm		ASTM D638	9	
@ Yield	5mm/min		%	-
@ Break	5mm/min		%	10
Flexural Strength, 6.4mm	5mm/min	ASTM D790	kg/cm ²	870
Flexural Modulus, 6.4mm	5mm/min	ASTM D790	kg/cm ²	25,500
IZOD Impact Strength, 6.4mm		ASTM D256	•	
(Notched)	23 ℃		kg-cm/cm	3.0
Thermal		A CTM D2440	°0	222
Melting Temperature		ASTM D3418	$^{\circ}$	223
Heat Deflection Temperature, 6.4mm	40 Clea	ASTM D648	°0	
(Unannealed)	18.6kg		°C	470
Flammability	4.6kg	UL94	$^{\circ}$	170
0.71mm		UL94	class	НВ
1.5mm			class	пь НВ
3.3mm			class	нь НВ
Relative Temperature Index		UL 746B	Class	ПБ
Electrical		OL 140D	$^{\circ}$	140
Mechanical with Impact			°C	130
Mechanical with Impact Mechanical without Impact			°C	140
Medianical without impact			U	140
Electrical				
Comparative Tracking Index(CTI)	Solution A	UL 746	PLC	0
Volume Resistivity	23 ℃	ASTM D257	Ohm-cm	1.0E+17
Arc Resistance	23 ℃	ASTM D495	PLC	5

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

ASTM D149

23℃

Updated: 20-Oct-17

kV/mm

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		${\mathbb C}$	110
Drying Time		hrs	5
Maximum Moisture Content		%	0.02
Melt Temperature		${\mathbb C}$	245 ~ 260
Cylinder Temperature	Rear	${\mathbb C}$	240 ~ 250
	Middle	${\mathbb C}$	245 ~ 255
	Front	${\mathbb C}$	245 ~ 255
Nozzle Temperature		${\mathbb C}$	250 ~ 260
Mold Temperature		${\mathbb C}$	30 ~ 50
Back Pressure		kg/cm ²	300
Screw Speed		rpm	60

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

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