

**LUPOX GP1000A**

PBT

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.018</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>58.9</b>	MPa	ASTM D 638
Elongation at Break	<b>50</b>	%	ASTM D 638
Flexural Modulus	<b>2629</b>	MPa	ASTM D 790
Flexural Strength	<b>89.3</b>	MPa	ASTM D 790
Izod Impact notched, 1/4 in	<b>36.3</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.71</b>	mm	-
DTUL @ 66 psi	<b>170</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>61</b>	°C	ASTM D 648
Melting Temperature	<b>225</b>	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Comparative tracking index	<b>600</b>	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	<b>23</b>	kV/mm	ASTM D 149
Volume Resistivity	<b>1E17</b>	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	<b>1300</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>3 - 5</b>	h	-
Processing humidity	<b>≤0.02</b>	%	-
Melt temperature	<b>225</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>245 - 255</b>	°C	-
Zone 2	<b>245 - 260</b>	°C	-
Zone 3	<b>245 - 260</b>	°C	-
Nozzle temperature	<b>250 - 265</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America

**Applications**

Automotive, General Purpose