

**LUPOX GP1000S**

PBT

LG Chem

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>30</b>	g/10min	ASTM D 1238
Temperature	<b>250</b>	°C	-
Load	<b>2.16</b>	kg	-
Mold Shrinkage, MD	<b>0.016</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>58.9</b>	MPa	ASTM D 638
Elongation at Break	<b>30</b>	%	ASTM D 638
Flexural Modulus	<b>2453</b>	MPa	ASTM D 790
Flexural Strength	<b>78.5</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>33</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.71</b>	mm	-
DTUL @ 66 psi	<b>155</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>58</b>	°C	ASTM D 648
Melting Temperature	<b>225</b>	°C	ASTM D 3418
<b>Electrical properties</b>			
<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
<b>Other properties</b>			
Density	<b>1300</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
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>240 - 250</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>230 - 235</b>	°C	-
Zone 2	<b>235 - 245</b>	°C	-
Zone 3	<b>235 - 245</b>	°C	-
Nozzle temperature	<b>240 - 250</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, General Purpose

**Regional Availability**

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