

LUPOX GP1000D

PBT

LG Chem

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

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	58.9	MPa	ASTM D 638
Elongation at Break	40	%	ASTM D 638
Flexural Modulus	2639	MPa	ASTM D 790
Flexural Strength	90.3	MPa	ASTM D 790
Izod Impact notched, 1/4 in	34.9	J/m	ASTM D 256

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

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

Other properties	Value	Unit	Test Standard
Density	1300	kg/m ³	ASTM D 792

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

Characteristics**Processing**

Injection Molding

Regional Availability

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

Applications

Automotive, General Purpose