

LUPOX GP1000M

PBT

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	35	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.016	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Strength at Yield	46.1	MPa	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	1962	MPa	ASTM D 790
Flexural Strength	70.6	MPa	ASTM D 790
Izod Impact notched, 1/4 in	49	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.71	mm	-
DTUL @ 66 psi	154	°C	ASTM D 648
DTUL @ 264 psi	54	°C	ASTM D 648
Melting Temperature	225	°C	ASTM D 3418
Electrical properties			
ISO Data	Value	Unit	Test Standard
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	1280	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	240 - 250	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	230 - 235	°C	-
Zone 2	235 - 245	°C	-
Zone 3	235 - 245	°C	-
Nozzle temperature	240 - 250	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Applications

Automotive

Regional Availability

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