

LUPOX SG5300
(PBT+PET)-GF30

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	118	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	7860	MPa	ASTM D 790
Flexural Strength	177	MPa	ASTM D 790
Izod Impact notched, 1/8 in	66	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	215	°C	ASTM D 648
DTUL @ 264 psi	205	°C	ASTM D 648
Melting Temperature	225	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.06	%	ASTM D 570
Density	1540	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4 - 5	h	-
Processing humidity	≤0.02	%	-
Melt temperature	255 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	245 - 255	°C	-
Zone 2	250 - 260	°C	-
Zone 3	255 - 265	°C	-
Nozzle temperature	255 - 265	°C	-

Characteristics**Processing**

Injection Molding

Applications

Automotive, Electrical and Electronical

Regional Availability

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