

**LUPOX SG5150**  
**(PBT+PET)-GF15**

LG Chem

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

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Break	<b>93.2</b>	MPa	ASTM D 638
Elongation at Break	<b>4</b>	%	ASTM D 638
Flexural Modulus	<b>4905</b>	MPa	ASTM D 790
Flexural Strength	<b>147</b>	MPa	ASTM D 790
Izod Impact notched, 1/8 in	<b>37.7</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 66 psi	<b>200</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>190</b>	°C	ASTM D 648
Melting Temperature	<b>225</b>	°C	ASTM D 3418

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1430</b>	kg/m <sup>3</sup>	ASTM D 792

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

**Characteristics****Processing**

Injection Molding

**Regional Availability**

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

**Applications**

Automotive, Electrical and Electronical