

**LUMID GP2101BF**

PA66-GF10

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0095	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Break	95.6	MPa	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	4905	MPa	ASTM D 790
Flexural Strength	142	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/4 in	37.7	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.8	mm	-
Coefficient of Thermal Expansion, MD	30.1	E-6/K	ASTM D 696
DTUL @ 264 psi	232	°C	ASTM D 648
Melting Temperature	260	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Volume Resistivity	1E16	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.7	%	ASTM D 570
Density	1450	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	4 - 5	h	-
Processing humidity	≤0.09	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	270 - 280	°C	-
Zone 3	270 - 285	°C	-
Nozzle temperature	270 - 280	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	30 - 60	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

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

**Special Characteristics**

Flame retardant