

LUMID GP2251BF

PA66-GF25

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0075	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	147	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	8343	MPa	ASTM D 790
Flexural Strength	216	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	84.8	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.8	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (2)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3.2	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	30	E-6/K	ASTM D 696
DTUL @ 66 psi	255	°C	ASTM D 648
DTUL @ 264 psi	248	°C	ASTM D 648
Melting Temperature	260	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	400	-	IEC 60112
ASTM Data			
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	0.6	%	ASTM D 570
Density	1600	kg/m ³	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 - 290	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	30 - 60	MPa	-

Characteristics

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Processing

Injection Molding

Applications

IT / Business Machine

Special Characteristics

Flame retardant

Regional Availability

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