

LUMID GP3200A(W)

PA6-MF20

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.01	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	73.6	MPa	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	4316	MPa	ASTM D 790
Flexural Strength	113	MPa	ASTM D 790
Rockwell Hardness	R 121	-	ASTM D 785
Izod Impact notched, 1/4 in	47.1	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.75	mm	-
Coefficient of Thermal Expansion, MD	56	E-6/K	ASTM D 696
DTUL @ 264 psi	130	°C	ASTM D 648
Melting Temperature	220	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	22	kV/mm	ASTM D 149
Dielectric Constant, 1 MHz	4	-	ASTM D 150
Volume Resistivity	1E17	Ohm*cm	ASTM D 257
Arc Resistance	185	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	1.2	%	ASTM D 570
Density	1280	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	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	230 - 255	°C	-
Zone 2	245 - 260	°C	-
Zone 3	245 - 270	°C	-
Nozzle temperature	250 - 270	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

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

Applications

Electrical and Electrical, General Purpose