

LUMID GP1100A(W)

PA6

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.012	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	79.5	MPa	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2649	MPa	ASTM D 790
Flexural Strength	108	MPa	ASTM D 790
Rockwell Hardness	R 120	-	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	V-2	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	80	E-6/K	ASTM D 696
DTUL @ 66 psi	170	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648
Melting Temperature	220	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	19	kV/mm	ASTM D 149
Dielectric Constant, 1 MHz	3	-	ASTM D 150
Volume Resistivity	1E17	Ohm*cm	ASTM D 257
Arc Resistance	195	s	ASTM D 495

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	1.7	%	ASTM D 570
Density	1130	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	240 - 270	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	225 - 245	°C	-
Zone 2	230 - 260	°C	-
Zone 3	240 - 270	°C	-
Nozzle temperature	240 - 270	°C	-

Characteristics**Processing**

Injection Molding

Applications

Sports Equipment

Regional Availability

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