

LUMID HI5003A

(PA6+EPDM+PP)

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	3.5	g/10min	ASTM D 1238
Temperature	235	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.0145	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	51	MPa	ASTM D 638
Elongation at Break	50	%	ASTM D 638
Flexural Modulus	2060	MPa	ASTM D 790
Flexural Strength	70.6	MPa	ASTM D 790
Izod Impact notched, 1/4 in	451	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	118	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	162	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.5	%	ASTM D 570
Density	1090	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 90	°C	-
Pre-drying - Time	4 - 5	h	-
Melt temperature	230 - 250	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	240 - 260	°C	-
Zone 2	240 - 260	°C	-
Zone 3	240 - 260	°C	-
Nozzle temperature	240 - 270	°C	-
Screw speed	30 - 70	rpm	-
Back pressure	30 - 60	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Applications

Automotive

Regional Availability

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