

## LG Chemical LUMID HI5083A(W) PA6/ABS+MF8%, High Impact

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded , Nylon , Nylon 6 , Nylon 6, 20% Mineral Filled , Nylon 6, Impact Grade

### Material Notes:

Feature: Injection Molding, PA6/ABS+MF8%, High Impact Application: Electric/Electronic Components (Shaver Die) CAS No. 25038-54-4, 9003-56-9, 9003-54-7 and 14807-96-6 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUMID-HI5083AW-PA6ABSMF8-High-Impact.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUMID-HI5083AW-PA6ABSMF8-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.010 cm/cm @Thickness 3.20 mm	0.0050 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	49.0 MPa @Thickness 3.20 mm	7110 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	37 % @Thickness 3.20 mm	37 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	73.0 MPa @Thickness 6.40 mm	10600 psi @Thickness 0.252 in	2.8mm/min; ASTM D790
Flexural Modulus	2.3500 GPa @Thickness 6.40 mm	340.83 ksi @Thickness 0.252 in	2.8mm/min; ASTM D790
Izod Impact, Notched	1.03 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.93 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	89.4 Â°C @Thickness 6.40 mm	193 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness >=0.750 mm	140 Â°F @Thickness >=0.0295 in	

Thermal Properties	Metric	English	Comments
	60.0 Å°C	140 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Å°C	140 Å°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Å°C	140 Å°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Å°C	140 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	245 - 260 Å°C	473 - 500 Å°F	Injection Molding
Middle Barrel Temperature	250 - 270 Å°C	482 - 518 Å°F	Injection Molding
Front Barrel Temperature	260 - 270 Å°C	500 - 518 Å°F	Injection Molding
Nozzle Temperature			Injection Molding

Processing Properties	260 - 275 Â°C Metric	500 - 527 Â°F English	Comments
Melt Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Drying Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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