

## LNP ULTEM® SMU5834 Polyetherimide, 20% Carbon Fiber Reinforcement (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon Fiber Filled

### Material Notes:

High modulus with shielding/ conductive characteristics for high-heat applications. Features: Electrically Conductive, High Heat Resistance, High Strength. Forms: Pellets. Processing Method: Injection Molding. Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LNP-ULTEM-SMU5834-Polyetherimide-20-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LNP-ULTEM-SMU5834-Polyetherimide-20-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	174 MPa	25200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	221 MPa	32100 psi	(102 mm Span) 3mm/min; ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	(102 mm Span) 3mm/min; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 °C @Thickness 6.35 mm	414 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm	10000 ohm	ASTM D257
Static Decay	<= 0.010 sec	<= 0.010 sec	5000V to <50V; FTMS101B

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	360 - 421 °C	680 - 790 °F	
Middle Barrel Temperature	371 - 421 °C	700 - 790 °F	
Front Barrel Temperature	382 - 427 °C	720 - 801 °F	
Nozzle Temperature	377 - 421 °C	711 - 790 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	149 °C	300 °F	
Dry Time	<= 24 hour	<= 24 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	
Clamp Pressure	41.0 - 69.0 MPa	5950 - 10000 psi	
Shot Size	40 - 60 %	40 - 60 %	Suggested
Vent Depth	0.00250 - 0.00760 cm	0.000984 - 0.00299 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China