

LNP ULTEM® SMU5836 Polyetherimide, 30% 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 StrengthForms: PelletsProcessing Method: Injection MoldingInformation 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-SMU5836-Polyetherimide-30-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.4 %	4.4 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	234 MPa	33900 psi	102 mm Span, 3 mm/min; ASTM D790
Flexural Modulus	15.1 GPa	2190 ksi	(102 mm Span) 3mm/min; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
Falling Dart Impact	6.89 J	5.08 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C @Thickness 6.35 mm	410 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	20 ohm-cm	20 ohm-cm	ASTM D257
Surface Resistance	3000 ohm	3000 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	

Processing Properties	Metric	English	Comments
From Barrel Temperature	382 - 427 °C	720 - 801 °F	
Nozzle Temperature	377 - 421 °C	711 - 790 °F	
Melt Temperature	382 - 427 °C	720 - 801 °F	
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	

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