

LNP ULTEM® SMU5852 Polyetherimide, 30% Carbon Fiber Reinforcement, 15% PTFE Lubricant (discontinued **)

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

Material Notes:

Features: Lubricated, Electrically Conductive, Good Wear ResistanceForms: 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-SMU5852-Polyetherimide-30-Carbon-Fiber-Reinforcement-15-PTFE-Lubricant-nbspdiscontinued-.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	192 MPa	27800 psi	(102 mm Span) 3mm/min; ASTM D790
Flexural Modulus	14.1 GPa	2050 ksi	(102 mm Span) 3mm/min; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
	2.00 J/cm	3.75 ft-lb/in	Reverse; ASTM D256
Izod Impact, Unnotched	3.20 J/cm	5.99 ft-lb/in	ASTM D256
Falling Dart Impact	7.68 J	5.66 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	211 °C @Thickness 6.35 mm	412 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	75 ohm-cm	75 ohm-cm	ASTM D257
Surface Resistance	5000 ohm	5000 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
Front 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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