

LNP ULTEM® SMU5831 Polyetherimide, 30% CarbonGlassMineral Reinforced (discontinued **)

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

Material Notes:

ESD characteristics for ultra high-heat applications. Will be UC3010H.Features: High Heat 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-SMU5831-Polyetherimide-30-CarbonGlassMineral-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Flexural Yield Strength	157 MPa	22800 psi	(102 mm Span) 3mm/min; ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	(102 mm Span) 3mm/min; ASTM D790
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	223 °C @Thickness 6.35 mm	433 °F @Thickness 0.250 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05	1e+05	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	

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