

LNP ULTEM® SMU6303 Polyetherimide, 5% Glass Fiber Reinforcement, 5% PTFE Lubricant (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 10% Glass Fiber

Material Notes:

Will be UNTW05. Features: Lubricated, High Heat Resistance, Good Wear Resistance, Low to None Ion Content, Electrically

Conductive 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-SMU6303-Polyetherimide-5-Glass-Fiber-Reinforcement-5-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.5 MPa	14000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	11 %	11 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	174 MPa	25200 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	2.599 GPa	377.0 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.83 J/cm	12.8 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	196 °C @Thickness 3.18 mm	385 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	189 °C @Thickness 3.18 mm	372 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	332 - 399 °C	630 - 750 °F	
Middle Barrel Temperature	338 - 399 °C	640 - 750 °F	
Front Barrel Temperature	343 - 399 °C	649 - 750 °F	

Processing Properties	Metric ⁹⁹ °C	English ¹⁰ °F	Comments
Melt Temperature	349 - 399 °C	660 - 750 °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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