

LNP ULTEM® EXCP0096 Polyetherimide, 30% Carbon Fiber Reinforcement, 10% PTFE Lubricant (discontinued **)

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

Material Notes:

Features: Lubricated, Electrically Conductive, Good Wear Resistance, High Heat Resistance
 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-EXCP0096-Polyetherimide-30-Carbon-Fiber-Reinforcement-10-PTFE-Lubricant-nbspdiscontinued-.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	163 MPa	23600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	17.9 GPa	2600 ksi	5 mm/min; ASTM D638
Flexural Strength	228 MPa	33100 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.72 J/cm	5.10 ft-lb/in	ASTM D256
Falling Dart Impact	6.21 J	4.58 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	224 °C	435 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 ohm-cm	1.0 ohm-cm	ASTM D257
Surface Resistance	25000 ohm	25000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
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Processing Properties	Metric ²¹ °C	English ⁴⁰ °F	Comments
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	
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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