

LNP ULTEM® UCF1205 Polyetherimide, 12% Carbon Fiber Reinforcement, 5% PTFE Lubricant (discontinued **)

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

Material Notes:

Office equipment internal parts.Features: Lubricated, 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-UCF1205-Polyetherimide-12-Carbon-Fiber-Reinforcement-5-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	133 MPa	19300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	5 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	8.14 GPa	1180 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.95 J/cm	7.40 ft-lb/in	ASTM D256
Falling Dart Impact	11.3 J	8.33 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 °C @Thickness 3.18 mm	421 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C @Thickness 3.18 mm	410 °F @Thickness 0.125 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
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	
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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