

LNP Thermocomp® UC-1006 Polyphthalamide, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

Material Notes:

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-Thermocomp-UC-1006-Polyphthalamide-Carbon-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	Method A; ASTM D792
Water Absorption	0.30 %	0.30 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	287 MPa	41600 psi	ASTM D638
Tensile Strength, Yield	287 MPa	41600 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Tensile Modulus	26.1 GPa	3790 ksi	ASTM D638
Flexural Strength	414 MPa	60000 psi	ASTM D790
Flexural Modulus	22.6 GPa	3280 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.18 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	8.27 J/cm @Thickness 3.18 mm	15.5 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	6.40 kJ/m ²	3.05 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	51.7 kJ/m ²	24.6 ft-lb/in ²	ISO 180
Falling Dart Impact	8.91 J	6.57 ft-lb	ASTM D3763
Impact Test	2.30 J	1.70 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.27	0.27	40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.21	0.21	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	12.1 x 10 ⁻⁸ mm ³ /N-M	6.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	286 °C	547 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 329 °C	601 - 624 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China