

LNP Thermocomp® UF-1006 A HS Polyphthalamide, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Features: Heat Stabilized 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-UF-1006-A-HS-Polyphthalamide-Glass-Fiber-Reinforcement-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	Method A; ASTM D792
Water Absorption	0.20 %	0.20 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	183 MPa	26500 psi	ASTM D638
Tensile Strength, Yield	183 MPa	26500 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Elongation at Yield	1.9 %	1.9 %	ASTM D638
Tensile Modulus	11.6 GPa	1680 ksi	ASTM D638
Flexural Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	11.5 GPa	1670 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.18 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.11 J/cm @Thickness 3.18 mm	7.70 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	7.10 kJ/m ²	3.38 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	30.5 kJ/m ²	14.5 ft-lb/in ²	ISO 180
Falling Dart Impact	9.93 J	7.32 ft-lb	ASTM D3763
	1.48 J	1.09 ft-lb	Multi-Axial Instrumented Impact

Impact Test Mechanical Properties	Metric	English	Energy: ISO 6603-2 Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	282 °C	540 °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	

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