

LNP* Thermocomp* Compound UF006H

Americas: COMMERCIAL

Also known as: UF-1006
Product Reorder Name: UF006H

LNP* Thermocomp* UF006H is a compound based on Polyphthalamide resin containing Glass Fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	224	MPa	ASTM D 638
Tensile Stress, break	224	MPa	ASTM D 638
Tensile Strain, yield	2.2	%	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	13100	MPa	ASTM D 638
Flexural Stress	289	MPa	ASTM D 790
Flexural Modulus	11030	MPa	ASTM D 790
Tensile Stress, yield	208	MPa	ISO 527
Tensile Stress, break	208	MPa	ISO 527
Tensile Strain, yield	2	%	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	12440	MPa	ISO 527
Flexural Stress	294	MPa	ISO 178
Flexural Modulus	11000	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	683	J/m	ASTM D 4812
Izod Impact, notched, 23°C	106	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	305	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	287	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.04E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.8E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	293	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	282	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.53	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.37	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.77	%	ISO 294

Density	1.52	g/cm ³	ISO 1183
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Source GMD, last updated:09/24/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15	%
Melt Temperature	315 - 330	°C
Front - Zone 3 Temperature	325 - 340	°C
Middle - Zone 2 Temperature	315 - 325	°C
Rear - Zone 1 Temperature	310 - 320	°C
Mold Temperature	150 - 170	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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