LNP™ THERMOTUF™ COMPOUND OF006I

OF-1006 HI

DESCRIPTION

LNP THERMOTUF* OF006I is a compound based on PPS - Linear resin containing Glass Fiber. Added features of this material include: High Impact.

TYPICAL PROPERTY VALUES

Revision 20191219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	143	MPa	ASTM D 638
Tensile Strain, break	2.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	10820	MPa	ASTM D 638
Flexural Stress	207	MPa	ASTM D 790
Flexural Modulus	9790	MPa	ASTM D 790
Tensile Stress, break	139	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	9820	MPa	ISO 527
Flexural Stress	212	MPa	ISO 178
Flexural Modulus	10060	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	779	J/m	ASTM D 4812
Izod Impact, notched, 23°C	170	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	13	J	ASTM D 3763
Multiaxial Impact	4	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A
THERMAL			
Relative Temp Index, Elec (1)	130	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	130	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	130	°C	UL 746B
PHYSICAL			
Density	1.486	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.04	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.23	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.67	%	ISO 294
Density	1.48	g/cm³	ISO 1183
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101284447	-	-
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4	hrs	
Melt Temperature	315 – 320	°C	
Front - Zone 3 Temperature	330 – 345	°C	
Middle - Zone 2 Temperature	320 – 330	°C	
Rear - Zone 1 Temperature	305 – 315	°C	
Mold Temperature	140 – 165	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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