LNP™ THERMOCOMP™ COMPOUND JF006

JF-1006
REGION AMERICAS

DESCRIPTION

LNP THERMOCOMP JF006 is a compound based on Polyethersulfone resin containing 30% Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	142	MPa	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	10750	MPa	ASTM D 638
Flexural Stress	210	MPa	ASTM D 790
Flexural modulus	9720	MPa	ASTM D 790
Tensile Stress, break	136	MPa	ISO 527
Tensile Strain, break	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	9450	MPa	ISO 527
Flexural Stress	207	MPa	ISO 178
Flexural Modulus	10000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	614	J/m	ASTM D 4812
Izod Impact, notched, 23°C	96	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Multiaxial Impact	4	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	210	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.06E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.11E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.73E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Af
PHYSICAL			
Density	1.584	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.34	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.27	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.48	%	ISO 294
Wear Factor Washer	170	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified: Manual
Dynamic COF	0.52	-	ASTM D 3702 Modified: Manual

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Static COF	0.57	-	ASTM D 3702 Modified: Manual
Density	1.58	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.46	%	ISO 62
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-101282575	-	-
UL Recognized, 94V-0 Flame Class Rating	0.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	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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