LNP™ THERMOCOMP™ COMPOUND JF006EXZ

JF-1006 EM

DESCRIPTION

LNP THERMOCOMP JF006EXZ is a compound based on Polyethersulfone resin containing 30% Glass Fiber. Added features of this material include: Easy Molding.

TYPICAL PROPERTY VALUES

Revision 20200108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	139	MPa	ASTM D 638
Tensile Strain, break	2.6	%	ASTM D 638
Flexural Stress	192	MPa	ASTM D 790
Flexural Modulus	8910	MPa	ASTM D 790
Tensile Stress, break	145	MPa	ISO 527
Tensile Strain, break	1.9	%	ISO 527
Flexural Stress	209	MPa	ISO 178
Flexural Modulus	9700	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	550	J/m	ASTM D 4812
Izod Impact, notched, 23°C	77	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	212	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	213	°C	ISO 75/Af
Relative Temp Index, Elec [1]	190	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	190	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	190	°C	UL 746B
PHYSICAL			
Density	1.6	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.21	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.3 – 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ASTM D 955
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101283894	-	-
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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