LNP™ THERMOCOMP™ COMPOUND PF008

PF-1008
REGION ASIA

DESCRIPTION

LNP THERMOCOMP* PF008 is a compound based on Nylon 6 resin containing 40% Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20190607

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	183	MPa	ASTM D 638
Tensile Strain, break	3.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	12670	MPa	ASTM D 638
Flexural Stress	278	MPa	ASTM D 790
Flexural Modulus	9250	MPa	ASTM D 790
Tensile Stress, break	186	MPa	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	12990	MPa	ISO 527
Flexural Stress	278	MPa	ISO 178
Flexural Modulus	9530	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	133	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	25	J	ASTM D 3763
Multiaxial Impact	21	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	92	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	17	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	195	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	208	°C	ISO 75/Af
Relative Temp Index, Elec [1]	130	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	70	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	85	°C	UL 746B
PHYSICAL			
Density	1.47	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.98	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 – 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.2 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.6 – 0.8	%	ISO 294
Density	1.46	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.26	%	ISO 62
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-103093423	-	-

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	265 – 275	°C	
Front - Zone 3 Temperature	275 – 290	°C	
Middle - Zone 2 Temperature	265 – 275	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	80 – 95	°C	
Back Pressure	0.3 – 0.7	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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