LNP™ THERMOCOMP™ COMPOUND HF008

HF-1008
REGION ASIA

DESCRIPTION

LNP THERMOCOMP* HF008 is a compound based on Nylon 11 resin containing 40% Glass Fiber.

TYPICAL PROPERTY VALUES

Revision 20190731

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	122	MPa	ASTM D 638
Tensile Strain, break	4.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	9280	MPa	ASTM D 638
Flexural Stress	220	MPa	ASTM D 790
Flexural Modulus	8480	MPa	ASTM D 790
Tensile Stress, break	123	MPa	ISO 527
Tensile Strain, break	3.9	%	ISO 527
Tensile Modulus, 1 mm/min	7600	MPa	ISO 527
Flexural Stress	192	MPa	ISO 178
Flexural Modulus	7970	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1228	J/m	ASTM D 4812
Izod Impact, notched, 23°C	240	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	18	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	75	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	21	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	177	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.82E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.04E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.87E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	175	°C	ISO 75/Af
PHYSICAL			
Density	1.37	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8 – 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.8 – 1	%	ISO 294
Density	1.37	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.19	%	ISO 62

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