LNP™ THERMOCOMP™ Compound HF008

HF-1008

DESCRIPTION

LNP THERMOCOMP HF008 compound is based on Nylon 11 resin containing 40% glass fiber.

GENERAL INFORMATION	
Features	High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyamide 11 (Nylon 11)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component, Water Management
Consumer	Personal Accessory
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	122	MPa	ASTM D638
Tensile Strain, break	4.9	%	ASTM D638
Tensile Modulus, 50 mm/min	9280	MPa	ASTM D638
Flexural Stress	220	MPa	ASTM D790
Flexural Modulus	8480	MPa	ASTM D790
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 [1]			
Izod Impact, unnotched, 23°C	1228	J/m	ASTM D4812
Izod Impact, notched, 23°C	240	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	18	J	ASTM D3763
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 [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	177	°C	ASTM D648
CTE, -40°C to 40°C, flow	2.88E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	8.82E-05	1/°C	ASTM E831

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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 [1]			
Density	1.37	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.1	%	ASTM D570
Mold Shrinkage, flow, 24 hrs [2]	0.1 – 0.3	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [2]	0.8 – 1	%	ASTM D955
Mold Shrinkage, flow, 24 hrs [2]	0.1 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs [2]	0.8 – 1	%	ISO 294
Density	1.37	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.19	%	ISO 62
INJECTION MOLDING [3]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.15	%	
Melt Temperature	225 – 260	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	230 – 245	°C	
Rear - Zone 1 Temperature	200 – 210	°C	
Mold Temperature	45 – 55	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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