



Americas: COMMERCIAL

LNP* Thermocomp* Compound LF008

Also known as: LF-1008 Product Reorder Name: LF008

LNP* Thermocomp* LF008 is a compound based on Polyetheretherketone resin containing Glass Fiber.

Property

TYPICAL PROPERTIES (1)				
MECHANICAL	Value	Unit	Standard	
Tensile Stress, yield	2	MPa	ASTM D 638	
Tensile Stress, break	154	MPa	ASTM D 638	
Tensile Strain, yield	2.4	%	ASTM D 638	
Tensile Strain, break	2.4	%	ASTM D 638	
Tensile Modulus, 50 mm/min	13780	MPa	ASTM D 638	
Flexural Stress	234	MPa	ASTM D 790	
Flexural Modulus	9650	MPa	ASTM D 790	
Tensile Stress, yield	156	MPa	ISO 527	
Tensile Stress, break	155	MPa	ISO 527	
Tensile Strain, yield	2.2	%	ISO 527	
Tensile Strain, break	2.4	%	ISO 527	
Tensile Modulus, 1 mm/min	12810	MPa	ISO 527	
Flexural Stress	240	MPa	ISO 178	
Flexural Modulus	10400	MPa	ISO 178	
IMPACT	Value	Unit	Standard	
Izod Impact, unnotched, 23°C	811	J/m	ASTM D 4812	
Izod Impact, notched, 23°C	69	J/m	ASTM D 256	
Instrumented Impact Energy @ peak, 23°C	13	J	ASTM D 3763	
Multiaxial Impact	3	J	ISO 6603	
Izod Impact, unnotched 80*10*4 +23°C	53	kJ/m²	ISO 180/1U	
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A	
THERMAL	Value	Unit	Standard	
CTE, -40°C to 40°C, flow	3.6E-06	1/°C	ASTM E 831	
CTE, -40°C to 40°C, xflow	1.8E-06	1/°C	ASTM E 831	
CTE, -40°C to 40°C, flow	4.E-06	1/°C	ISO 11359-2	
CTE, -40°C to 40°C, xflow	2.E-06	1/°C	ISO 11359-2	
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	261	°C	ISO 75/Af	
PHYSICAL	Value	Unit	Standard	
Density	1.61	g/cm³	ASTM D 792	
Mold Shrinkage, flow, 24 hrs	50 - 70	%	ASTM D 955	
Mold Shrinkage, xflow, 24 hrs	100 - 300	%	ASTM D 955	
			100.004	
Mold Shrinkage, flow, 24 hrs	6.4	%	ISO 294	
Mold Shrinkage, flow, 24 hrs Mold Shrinkage, xflow, 24 hrs	6.4 1.1	%	ISO 294 ISO 294	

Source GMD, last updated:09/24/2008

Parameter		
Injection Molding	Value	Unit
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.1	%
Melt Temperature	380 - 390	°C
Front - Zone 3 Temperature	380 - 395	°C
Middle - Zone 2 Temperature	365 - 375	°C
Rear - Zone 1 Temperature	350 - 360	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

- (1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
- (2) Only typical data for selection purposes. Not to be used for part or tool design.
- (3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- (4) Internal measurements according to UL standards.

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