

## LNP\* Thermocomp\* Compound SF008

Americas: COMMERCIAL

Also known as: SF-1008  
Product Reorder Name: SF008

LNP\* Thermocomp\* SF008 is a compound based on Nylon 12 resin containing Glass Fiber.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	135	MPa	ASTM D 638
Tensile Strain, break	10.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	8270	MPa	ASTM D 638
Flexural Stress	96	MPa	ASTM D 790
Flexural Modulus	7580	MPa	ASTM D 790
Tensile Stress, break	152	MPa	ISO 527
Tensile Strain, break	9	%	ISO 527
Tensile Modulus, 1 mm/min	8760	MPa	ISO 527
Flexural Stress	213	MPa	ISO 178
Flexural Modulus	9000	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	1441	J/m	ASTM D 4812
Izod Impact, notched, 23°C	256	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	75	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	18	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	176	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	170	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	166	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.37	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.18	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.73	%	ISO 294
Density	1.37	g/cm <sup>3</sup>	ISO 1183

Source GMD, last updated:09/24/2008

### Processing

Parameter	Value	Unit
<b>Injection Molding</b>		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C

Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	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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