

LNP* Thermocomp* Compound AF003

Americas: COMMERCIAL

Also known as: AF-1003
Product Reorder Name: AF003

LNP* Thermocomp* AF003 is a compound based on Acrylonitrile Butadiene Styrene resin containing Glass Fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, break	70	MPa	ASTM D 638
Tensile Strain, break	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	5670	MPa	ASTM D 638
Flexural Stress	103	MPa	ASTM D 790
Flexural Modulus	5110	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	348	J/m	ASTM D 4812
Izod Impact, notched, 23°C	74	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	95	°C	ASTM D 648
PHYSICAL			
Density	1.17	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3	%	ASTM D 955

Source GMD, last updated:09/24/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	260	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	205 - 215	°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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