

LNP\* Thermocomp\* Compound MF003AS

Americas: COMMERCIAL

PP, Glass Fiber, Heat Stabilized,

Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	29	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	59	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	8610	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	57	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1780	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	19	MPa	ISO 527
Tensile Stress, break, 5 mm/min	57	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.4	%	ISO 527
Tensile Modulus, 1 mm/min	4750	MPa	ISO 527
Flexural Strain, break, 2 mm/min	78.2	%	ISO 178
Flexural Modulus, 2 mm/min	3930	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	358	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	155	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	134	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	8.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	155	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.01	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.1 - 1.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ASTM D 955
Density	1.01	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62

Source GMD, last updated:02/26/2008

Processing

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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