



## LNP™ THERMOCOMP™ Compound AF006XXZ

### Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound AF-1006

Product reorder name: AF006XXZ

LNP THERMOCOMP AF006XXZ is a compound based on ABS resin containing 30% Glass Fiber.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	980	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, break	1.8	%	ASTM D 638
Flexural Stress	1560	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus	93500	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, break	83	MPa	ISO 527
Tensile Strain, break	1.7	%	ISO 527
Flexural Stress	119	MPa	ISO 178
Flexural Modulus	8000	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	28	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	102	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	102	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.28	g/cm <sup>3</sup>	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955

(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.

(5) 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.

(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
<b>Injection Molding</b>		
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

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