

**Product Texts**

LNP THERMOCOMP AF002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% glass fiber.

UL Yellow Card Link [E121562-101344528](https://www.ul.com/yellowcard/E121562-101344528)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4200	MPa	ISO 527
Stress at break	64	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	4500	MPa	ISO 178
Flexural strength	107	MPa	ISO 178
Izod impact strength, +23°C, 4mm	23	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	4130	MPa	ASTM D 638
Tensile Strength at Break	66	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	4200	MPa	ASTM D 790
Flexural Strength	105	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	320	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	95	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	101	°C	ASTM D 648
DTUL @ 264 psi	92	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.38	%	Sim. to ISO 62
Density	1100	kg/m <sup>3</sup>	ISO 1183
Density	1110	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America