

**Product Texts**

LNP THERMOCOMP WF004 compound is based on Polybutylene Terephthalate (PBT) resin containing 20% glass fiber.

UL Yellow Card Link [E121562-101284452](https://www.ul.com/yellowcard/E121562-101284452)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	7590	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Stress at break	114	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	6660	MPa	ISO 178
Flexural strength	173	MPa	ISO 178
Izod impact strength, +23°C, 4mm	35	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	7580	MPa	ASTM D 638
Tensile Strength at Break	117	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	7110	MPa	ASTM D 790
Izod Impact notched, 1/8 in	60	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	601	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	198	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	219	°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>			
Coefficient of Thermal Expansion, MD	39.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	102	E-6/K	ASTM D 696
DTUL @ 66 psi	222	°C	ASTM D 648
DTUL @ 264 psi	207	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.07	%	Sim. to ISO 62
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1470	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America

**Applications**

Automotive