

**Product Texts**

LNP THERMOCOMP WB006 compound is based on Polybutylene Terephthalate (PBT) resin containing 30% glass bead.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	2.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	4200	MPa	ISO 527
Yield strain	3.7	%	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	4.4	%	ISO 527
Flexural modulus	3600	MPa	ISO 178
Izod impact strength, +23°C, 4mm	11	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	2	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	4070	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	4.2	%	ASTM D 638
Elongation at Break	5.6	%	ASTM D 638
Flexural Modulus	3980	MPa	ASTM D 790
Izod Impact notched, 1/8 in	22	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	172	J/m	ASTM D 256

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	93	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	170	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	74	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70.9	E-6/K	ASTM D 696
DTUL @ 66 psi	186	°C	ASTM D 648
DTUL @ 264 psi	106	°C	ASTM D 648

**Other properties**

	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1540	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1570	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