

Product Texts

LNP THERMOCOMP WB004U is a compound based on Polybutylene Terephthalate (PBT) resin containing 20% Glass bead. Added features of this grade are: UV Stabilized.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3600	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	43	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus, 23°C	3200	MPa	ISO 178
Izod impact strength, +23°C	21	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	2	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3500	MPa	ASTM D 638
Tensile Strength at Yield	43	MPa	ASTM D 638
Tensile Strength at Break	46	MPa	ASTM D 638
Elongation at Yield	8	%	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	3200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	323	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	71	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	164	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	178	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1460	kg/m ³	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 - 264	°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

Special Characteristics

U.V. stabilized or stable to weather

Features

Low Warpage

Applications

Building Construction, IT / Business Machine, Electrical and Electrical

Regional Availability

North America, Europe, Asia Pacific, South and Central America