

Product Texts

LNP THERMOCOMP WFB62 compound is based on Polybutylene Terephthalate (PBT) resin containing 10% glass fiber, 30% glass bead. Added features of this grade include: Low Warpage.

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6150	MPa	ISO 527
Yield stress	77	MPa	ISO 527
Yield strain	3	%	ISO 527
Stress at break	76	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus	5670	MPa	ISO 178
Flexural strength	126	MPa	ISO 178
Izod impact strength, +23°C, 4mm	17	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	6060	MPa	ASTM D 638
Tensile Strength at Yield	77	MPa	ASTM D 638
Tensile Strength at Break	76	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	5730	MPa	ASTM D 790
Izod Impact notched, 1/8 in	30	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	277	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	167	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	207	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	50.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	59	E-6/K	ASTM D 696
DTUL @ 66 psi	216	°C	ASTM D 648
DTUL @ 264 psi	185	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Water Absorption, 24hr	0.03	%	ASTM D 570
Density	1600	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 - 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, Europe, Asia Pacific