

Product Texts

LNP THERMOCOMP WF008 compound is based on Polybutylene Terephthalate (PBT) resin containing 40% glass fiber.

UL Yellow Card Link [E121562-101284452](https://www.ulprospector.com/121562-101284452)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13400	MPa	ISO 527
Stress at break	134	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	11800	MPa	ISO 178
Izod impact strength, +23°C, 4mm	38	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12540	MPa	ASTM D 638
Tensile Strength at Break	128	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	11880	MPa	ASTM D 790
Izod Impact notched, 1/8 in	95	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	619	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	215	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
Coefficient of Thermal Expansion, MD	32	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	73.1	E-6/K	ASTM D 696
DTUL @ 66 psi	222	°C	ASTM D 648
DTUL @ 264 psi	211	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.05	%	Sim. to ISO 62
Density	1640	kg/m ³	ISO 1183
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1640	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