

Product Texts

LNP THERMOCOMP WF0039U compound is based on Polybutylene Terephthalate (PBT) resin containing 15% glass fiber. Added features of this grade include: Flame Retardant and UV Stabilized.

UL Yellow Card Link [E121562-101358192](https://www.ul.com/Products/Plastics/Engineering-Plastics/PBT-GF15)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.6	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7080	MPa	ISO 527
Stress at break	95	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	6360	MPa	ISO 178
Flexural strength	145	MPa	ISO 178
Izod impact strength, +23°C, 4mm	19	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	7240	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	6060	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	342	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	185	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	212	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.7	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	41.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	110	E-6/K	ASTM D 696
DTUL @ 66 psi	215	°C	ASTM D 648
DTUL @ 264 psi	194	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1570	kg/m ³	ISO 1183
Water Absorption, 24hr	0.05	%	ASTM D 570
Density	1580	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	245 - 260	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	230 - 245	°C	-
Zone 2	245 - 255	°C	-
Zone 3	250 - 260	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific