

Product Texts

LNP THERMOCOMP COMPOUND WFC06IXP is a compound based on Polybutylene terephthalate (PBT) containing Glass Fiber. Added features of this material include Chemical Resistance, Enhanced Dimensional Stability, Low Warpage, Dielectrics.

UL Yellow Card Link: [E207780-104566020](https://www.ul.com/yellow-card/E207780-104566020)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy impact strength, +23°C	65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	15	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	8370	MPa	ASTM D 638
Tensile Strength at Break	115	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	7660	MPa	ASTM D 790
Flexural Strength	190	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	120	J/m	ASTM D 256
Temperature	-20	°C	-
Izod Impact unnotched, 1/8 in	1100	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1	mm	-
Coefficient of Thermal Expansion, MD	30	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	80	E-6/K	ASTM D 696
DTUL @ 66 psi	218	°C	ASTM D 648
DTUL @ 264 psi	193	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1500	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	260 - 290	°C	-
Mold temperature	50 - 110	°C	-
Zone 1	250 - 280	°C	-
Zone 2	260 - 290	°C	-
Zone 3	260 - 290	°C	-
Nozzle temperature	265 - 295	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Chemical Resistance

General Chemical Resistance

Applications

Automotive, Electrical and Electronical

Regional Availability

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