LNP™ THERMOCOMP™ Compound WFC06I

PBT-GF | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP COMPOUND WFC06I 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, laser weldable.

UL Yellow Card Link: E207780-104566644

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**22**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
ASTM Data			
Mold Shrinkage, MD	**0.001**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.0015**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy impact strength, +23°C	**62**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**13**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	**9300**	MPa	ASTM D 638
Tensile Strength at Break	**130**	MPa	ASTM D 638
Elongation at Break	**2.6**	%	ASTM D 638
Flexural Modulus	**8720**	MPa	ASTM D 790
Flexural Strength	**200**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**140**	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	**990**	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	**23**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**64**	E-6/K	ASTM D 696
DTUL @ 66 psi	**200**	°C	ASTM D 648
DTUL @ 264 psi	**90**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1500**	kg/m³	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, Weldable

Chemical Resistance
General Chemical Resistance

Applications
Automotive, Electrical and Electronical

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