LNP™ THERMOCOMP™ Compound 9X07430

(PC+PBT)-GF — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP 9X07430 compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend containing glass fiber and talc. Added features of this grade include: Opaque, Weatherable.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.505**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.585**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3160**	MPa	ISO 527
Yield stress	**60**	MPa	ISO 527
Yield strain	**3.1**	%	ISO 527
Stress at break	**56**	MPa	ISO 527
Strain at break	**4.9**	%	ISO 527
Flexural modulus	**3020**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**47**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**8**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**3300**	MPa	ASTM D 638
Tensile Strength at Yield	**57**	MPa	ASTM D 638
Tensile Strength at Break	**51**	MPa	ASTM D 638
Elongation at Yield	**2.9**	%	ASTM D 638
Elongation at Break	**4.8**	%	ASTM D 638
Flexural Modulus	**3140**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**80**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**715**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**105**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	**102**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.16**	%	Sim. to ISO 62
Density	**1310**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.11**	%	ASTM D 570
Density	**1310**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 110**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**260 - 280**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**245 - 270**	°C	-
Zone 2	**255 - 275**	°C	-
Zone 3	**260 - 280**	°C	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications
Automotive