

LNP™ THERMOCOMP™ Compound 9X02841

(PC+PBT)-GF15

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP 9X02841 compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend containing 15% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4880	MPa	ISO 527
Yield stress	80	MPa	ISO 527
Yield strain	2.6	%	ISO 527
Stress at break	80	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	4480	MPa	ISO 178
Flexural strength	115	MPa	ISO 178
Izod impact strength, +23°C, 4mm	31	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	5120	MPa	ASTM D 638
Tensile Strength at Yield	83	MPa	ASTM D 638
Tensile Strength at Break	83	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	4600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	78	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	522	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	115	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	140	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	41	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	63	E-6/K	ASTM D 696
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	115	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.14	%	Sim. to ISO 62
Density	1330	kg/m ³	ISO 1183
Water Absorption, 24hr	0.09	%	ASTM D 570
Density	1330	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, Europe, Asia Pacific