

LNP™ THERMOCOMP™ Compound NF002 - Americas

(PC+ABS)-GF10

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP NF002 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing 10% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.65	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	4410	MPa	ISO 527
Yield stress	79	MPa	ISO 527
Yield strain	2.9	%	ISO 527
Stress at break	78	MPa	ISO 527
Strain at break	3.1	%	ISO 527
Flexural modulus	4160	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	4810	MPa	ASTM D 638
Tensile Strength at Yield	81	MPa	ASTM D 638
Tensile Strength at Break	78	MPa	ASTM D 638
Elongation at Yield	2.9	%	ASTM D 638
Elongation at Break	3.1	%	ASTM D 638
Flexural Modulus	4200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	112	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	494	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	59.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	67	E-6/K	ASTM D 696
DTUL @ 66 psi	138	°C	ASTM D 648
DTUL @ 264 psi	130	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.21	%	Sim. to ISO 62
Density	1230	kg/m ³	ISO 1183
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1230	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	230 - 245	°C	-
Zone 2	250 - 260	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

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Characteristics

Processing

Injection Molding

Regional Availability

North America