

Product Texts

LNP THERMOCOMP NF001 compound is based on Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend containing 5% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3300	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	3.4	%	ISO 527
Stress at break	51	MPa	ISO 527
Strain at break	5.3	%	ISO 527
Flexural modulus	3120	MPa	ISO 178
Flexural strength	94	MPa	ISO 178
Izod impact strength, +23°C, 4mm	37	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	13	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	3550	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Yield	3.4	%	ASTM D 638
Elongation at Break	6.2	%	ASTM D 638
Flexural Modulus	3220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	595	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	120	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	134	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	52.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	82.1	E-6/K	ASTM D 696
DTUL @ 66 psi	136	°C	ASTM D 648
DTUL @ 264 psi	123	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.25	%	Sim. to ISO 62
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1190	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	-

LNP™ THERMOCOMP™ Compound NF001 - Americas

(PC+ABS)-GF5

Saudi Basic Industries Corporation (SABIC)

Characteristics

Processing

Injection Molding

Regional Availability

North America