

Product Texts

LNP THERMOCOMP SF008 is a compound based on Nylon 12 resin containing 40% Glass Fiber.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.002	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8760	MPa	ISO 527
Stress at break	152	MPa	ISO 527
Strain at break	9	%	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Flexural strength	213	MPa	ISO 178
Izod impact strength, +23°C	75	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	18	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8270	MPa	ASTM D 638
Tensile Strength at Break	135	MPa	ASTM D 638
Elongation at Break	10.5	%	ASTM D 638
Flexural Modulus	7580	MPa	ASTM D 790
Flexural Strength	96	MPa	ASTM D 790
Izod Impact notched, 1/8 in	256	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1440	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	166	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	176	°C	ASTM D 648
DTUL @ 264 psi	170	°C	ASTM D 648

Other properties

	Value	Unit	Test Standard
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1370	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	≤0.2	%	-
Melt temperature	225 - 240	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	215 - 225	°C	-
Zone 2	220 - 230	°C	-
Zone 3	225 - 240	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

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

Applications

Automotive, Building Construction, Electrical and Electronical,
Sports Equipment