

Product Texts

LNP THERMOCOMP SF006 compound is based on Nylon 12 resin containing 30% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.25	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.75	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6580	MPa	ISO 527
Stress at break	108	MPa	ISO 527
Strain at break	4.6	%	ISO 527
Flexural modulus	6240	MPa	ISO 178
Flexural strength	169	MPa	ISO 178
Izod impact strength, +23°C, 4mm	58	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6550	MPa	ASTM D 638
Tensile Strength at Break	106	MPa	ASTM D 638
Elongation at Break	4.7	%	ASTM D 638
Flexural Modulus	5860	MPa	ASTM D 790
Flexural Strength	170	MPa	ASTM D 790
Izod Impact notched, 1/8 in	149	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	950	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	162	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	163	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.22	%	Sim. to ISO 62
Density	1240	kg/m ³	ISO 1183
Water Absorption, 24hr	0.14	%	ASTM D 570
Density	1240	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

Applications

Automotive