

Product Texts

LNP THERMOCOMP SF00A compound is based on Nylon 12 resin containing 50% glass fiber.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12300	MPa	ISO 527
Yield stress	113	MPa	ISO 527
Yield strain	1.5	%	ISO 527
Stress at break	113	MPa	ISO 527
Strain at break	1.5	%	ISO 527
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	1	kJ/m ²	ISO 180/1A

ASTM Data

Tensile Modulus	12800	MPa	ASTM D 638
Tensile Strength at Yield	121	MPa	ASTM D 638
Tensile Strength at Break	121	MPa	ASTM D 638
Elongation at Yield	1.7	%	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	10980	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	833	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	176	°C	ASTM D 648
DTUL @ 264 psi	166	°C	ASTM D 648

Other properties

	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183
Density	1480	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