

Product Texts

LNP THERMOCOMP RF00CXXY compound is based on Nylon 6/6 resin containing 60% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.02	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	19600	MPa	ISO 527
Stress at break	242	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus, 23°C	18500	MPa	ISO 178
Flexural strength	377	MPa	ISO 178
Izod impact strength, +23°C	76	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	16	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	21120	MPa	ASTM D 638
Tensile Strength at Break	247	MPa	ASTM D 638
Elongation at Break	2.1	%	ASTM D 638
Flexural Modulus	18300	MPa	ASTM D 790
Flexural Strength	384	MPa	ASTM D 790
Izod Impact notched, 1/8 in	159	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1340	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	254	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	260	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	21	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	40	E-6/K	ASTM D 696
DTUL @ 66 psi	260	°C	ASTM D 648
DTUL @ 264 psi	255	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.6	%	Sim. to ISO 62
Density	1680	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	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°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

Building Construction, IT / Business Machine, Electrical and
Electronical, Sports Equipment