

Product Texts

LNP THERMOCOMP AF004XXY compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 20% glass fiber.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6040	MPa	ISO 527
Stress at break	77	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	5970	MPa	ISO 178
Flexural strength	119	MPa	ISO 178
Izod impact strength, +23°C, 4mm	23	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6080	MPa	ASTM D 638
Tensile Strength at Break	76	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	6080	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	374	J/m	ASTM D 256

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	52	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	56	E-6/K	ASTM D 696
DTUL @ 264 psi	100	°C	ASTM D 648

Other properties

	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183
Water Absorption, 24hr	0.25	%	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	≤0.1	%	-
Melt temperature	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-
Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific