

Product Texts

LNP THERMOCOMP 9X06482 compound is based on Nylon 4/6 resin containing 30% glass fiber. Added features of this grade include: Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.58	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9200	MPa	ISO 527
Stress at break	165	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	7930	MPa	ISO 178
Flexural strength	253	MPa	ISO 178
Izod impact strength, +23°C, 4mm	51	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9530	MPa	ASTM D 638
Tensile Strength at Yield	169	MPa	ASTM D 638
Tensile Strength at Break	168	MPa	ASTM D 638
Elongation at Break	3.5	%	ASTM D 638
Flexural Modulus	8240	MPa	ASTM D 790
Izod Impact notched, 1/8 in	71	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	857	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	286	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	290	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	25	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	67	E-6/K	ASTM D 696
DTUL @ 66 psi	289	°C	ASTM D 648
DTUL @ 264 psi	286	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	2.2	%	Sim. to ISO 62
Water Absorption, 24hr	1.5	%	ASTM D 570
Density	1400	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 8	h	-
Processing humidity	≤0.5	%	-
Melt temperature	305 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	280 - 320	°C	-
Zone 2	300 - 320	°C	-
Zone 3	300 - 320	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific