

**Product Texts**

LNP THERMOCOMP QF00A compound is based on Nylon 6/10 resin containing 50% glass fiber.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.19	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	15500	MPa	ISO 527
Yield stress	181	MPa	ISO 527
Yield strain	2.3	%	ISO 527
Stress at break	181	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus	12900	MPa	ISO 178
Izod impact strength, +23°C, 4mm	75	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	18680	MPa	ASTM D 638
Tensile Strength at Yield	181	MPa	ASTM D 638
Tensile Strength at Break	181	MPa	ASTM D 638
Elongation at Yield	2.5	%	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	11440	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1310	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	203	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°C	ISO 75-1/-2
<b>ASTM Data</b>			
DTUL @ 66 psi	221	°C	ASTM D 648
DTUL @ 264 psi	213	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.28	%	Sim. to ISO 62
Density	1600	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.21	%	ASTM D 570
Density	1600	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	270 - 275	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	250 - 260	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America