

**Product Texts**

LNP THERMOCOMP RF0069XZ compound is based on Nylon 6/6 resin containing 30% glass fiber. Added features of this grade include: Flame Retardant.

UL Yellow Card Link [E207780-101281630](https://www.ulprospector.com/PA66-GF30)

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	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	13100	MPa	ISO 527
Stress at break	155	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	12000	MPa	ISO 178
Izod impact strength, +23°C, 4mm	45	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	13550	MPa	ASTM D 638
Tensile Strength at Break	165	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	11720	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	710	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	240	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	255	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-

<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	25.4	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	49.7	E-6/K	ASTM D 696
DTUL @ 66 psi	254	°C	ASTM D 648
DTUL @ 264 psi	242	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Humidity absorption	0.54	%	Sim. to ISO 62
Density	1680	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.36	%	ASTM D 570
Density	1690	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	≤0.25	%	-
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

**Special Characteristics**

Flame retardant

**Additives**

Flame retarding agent

**Regional Availability**

North America, Europe, Asia Pacific