

**Product Texts**

LNP THERMOCOMP RF006ESZ compound is based on Nylon 6/6 resin containing 30% glass fiber. Added features of this grade include: Easy Molding, Heat Stabilized.

UL Yellow Card Link [E121562-101281596](https://www.ul.com/yellow-card/E121562-101281596)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9400	MPa	ISO 527
Stress at break	140	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	8900	MPa	ISO 178
Flexural strength	217	MPa	ISO 178
Izod impact strength, +23°C, 4mm	46	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	9850	MPa	ASTM D 638
Tensile Strength at Break	140	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	7440	MPa	ASTM D 790
Flexural Strength	206	MPa	ASTM D 790
Izod Impact notched, 1/8 in	80	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	731	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	222	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
<b>ASTM Data</b>			
DTUL @ 66 psi	252	°C	ASTM D 648
DTUL @ 264 psi	230	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	1.07	%	Sim. to ISO 62
Density	1390	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.87	%	ASTM D 570
Density	1400	kg/m <sup>3</sup>	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