

**Product Texts**

LNP THERMOCOMP RF007SXQ compound is based on Nylon 6/6 resin containing 35% glass fiber. Added features of this grade include: Heat Stabilized, Hydrolysis Resistant.

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	10500	MPa	ISO 527
Stress at break	200	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	10000	MPa	ISO 178
Charpy impact strength, +23°C	85	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	12	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	L115	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	256	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	255	°C	ISO 306
Coeff. of linear therm. expansion, parallel	20	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Thermal Conductivity	0.33	W/(m K)	DIN 52616

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
Dissipation factor, 1MHz	150	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	500	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	4.5	%	Sim. to ISO 62
Humidity absorption	1.1	%	Sim. to ISO 62
Density	1410	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	75 - 85	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.2	%	-
Melt temperature	260 - 290	°C	-
Mold temperature	70 - 120	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	270 - 290	°C	-
Zone 2	260 - 280	°C	-
Zone 3	260 - 280	°C	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe