

Product Texts

LNP THERMOCOMP PF006 compound is based on Nylon 6 resin containing 30% glass fiber.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9500	MPa	ISO 527
Stress at break	160	MPa	ISO 527
Strain at break	3.7	%	ISO 527
Flexural modulus	8000	MPa	ISO 178
Charpy impact strength, +23°C	90	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	9	kJ/m ²	ISO 180/1A
Rockwell hardness	L111	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	215	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	215	°C	ISO 306
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	85	E-6/K	ISO 11359-1/-2
Thermal Conductivity	0.33	W/(m K)	DIN 52616

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.4	-	IEC 62631-2-1
Dissipation factor, 1MHz	160	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	6.5	%	Sim. to ISO 62
Humidity absorption	1.8	%	Sim. to ISO 62
Density	1370	kg/m ³	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	250 - 280	°C	-
Mold temperature	70 - 120	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	250 - 280	°C	-
Zone 2	250 - 280	°C	-
Zone 3	250 - 280	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe