LNP™ THERMOCOMP™ Compound RF004 - Europe

PA66-GF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP RF004 compound is based on Nylon 6/6 resin containing 20% glass fiber.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**7150**	MPa	ISO 527
Stress at break	**130**	MPa	ISO 527
Strain at break	**3.5**	%	ISO 527
Flexural modulus	**6800**	MPa	ISO 178
Charpy impact strength, +23°C	**65**	kJ/m²	ISO 179/1eU
Izod notched impact strength, +23°C, 4mm	**7**	kJ/m²	ISO 180/1A
Rockwell hardness	**L112**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 120°C/h 50N	**255**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**31**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**95**	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	**3.2**	-	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	**5.5**	%	Sim. to ISO 62
Density	**1290**	kg/m³	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