LNP™ THERMOCOMP™ Compound RF008 - Americas

PA66-GF40 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP RF008 compound is based on Nylon 6/6 resin containing 40% glass fiber.

UL Yellow Card Link E121562-101281621

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.3**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**2**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**14100**	MPa	ISO 527
Yield stress	**232**	MPa	ISO 527
Yield strain	**2.9**	%	ISO 527
Stress at break	**232**	MPa	ISO 527
Strain at break	**2.9**	%	ISO 527
Flexural modulus	**11200**	MPa	ISO 178
Flexural strength	**229**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**86**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**16**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**13900**	MPa	ASTM D 638
Tensile Strength at Yield	**230**	MPa	ASTM D 638
Tensile Strength at Break	**210**	MPa	ASTM D 638
Elongation at Yield	**2.8**	%	ASTM D 638
Elongation at Break	**2.9**	%	ASTM D 638
Flexural Modulus	**12400**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**166**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**1320**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**242**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**259**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	**32**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**61.9**	E-6/K	ASTM D 696
DTUL @ 66 psi	**260**	°C	ASTM D 648
DTUL @ 264 psi	**253**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**1**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.66**	%	ASTM D 570
Density	**1500**	kg/m³	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