LNP™ THERMOCOMP™ Compound LF008 - Americas

PEEK-GF40 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP LF008 compound is based on Polyetheretherketone (PEEK) resin containing 40% glass fiber. Added features of this grade include: High Modulus and Strength.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.1**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.6**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**2**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**12800**	MPa	ISO 527
Yield stress	**156**	MPa	ISO 527
Yield strain	**2.2**	%	ISO 527
Stress at break	**155**	MPa	ISO 527
Strain at break	**2.4**	%	ISO 527
Flexural modulus	**10400**	MPa	ISO 178
Flexural strength	**240**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**53**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**7**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**13780**	MPa	ASTM D 638
Tensile Strength at Break	**154**	MPa	ASTM D 638
Elongation at Yield	**2.4**	%	ASTM D 638
Elongation at Break	**2.4**	%	ASTM D 638
Flexural Modulus	**9650**	MPa	ASTM D 790
Flexural Strength	**234**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**69**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**811**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**261**	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	**1610**	kg/m³	ISO 1183
Density	**1610**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Mold temperature	**175 - 190**	°C	-
Zone 1	**370 - 380**	°C	-
Zone 2	**380 - 400**	°C	-
Zone 3	**380 - 400**	°C	-
Screw speed	**60 - 100**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America