LNP™ THERMOCOMP™ Compound LC008EXP

PEEK-CF40 Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP LC008EXP compound is based on Polyetheretherketone (PEEK) resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive, Easy Molding.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**26200**	MPa	ISO 527
Stress at break	**256**	MPa	ISO 527
Strain at break	**1.6**	%	ISO 527
Flexural modulus	**22900**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**45**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**9**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**300**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**4**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**41**	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	**1450**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120 - 150**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**380 - 390**	°C	-
Mold temperature	**140 - 165**	°C	-
Zone 1	**350 - 360**	°C	-
Zone 2	**365 - 375**	°C	-
Zone 3	**380 - 395**	°C	-
Screw speed	**60 - 100**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific

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