LNP™ THERMOCOMP™ Compound EC008

PEI-CF40

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP EC008 compound is based on Polyetherimide (PEI) resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.3**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**27000**	MPa	ISO 527
Yield stress	**211**	MPa	ISO 527
Strain at break	**0.9**	%	ISO 527
Flexural modulus	**22200**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**25**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**8**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**214**	°C	ISO 75-1/-2

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1440**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**360 - 400**	°C	-
Mold temperature	**140 - 180**	°C	-
Zone 1	**360 - 380**	°C	-
Zone 2	**370 - 390**	°C	-
Zone 3	**380 - 400**	°C	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity