LNP™ THERMOCOMP™ Compound LC006EXQ

PEEK-CF40 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP LC006EXQ compound is based on Polyetheretherketone (PEEK) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive, Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.225**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.05**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**35300**	MPa	ISO 527
Stress at break	**319**	MPa	ISO 527
Strain at break	**1.5**	%	ISO 527
Flexural modulus	**27200**	MPa	ISO 178
Flexural strength	**457**	MPa	ISO 178
ASTM Data			
Tensile Modulus	**31700**	MPa	ASTM D 638
Tensile Strength at Break	**314**	MPa	ASTM D 638
Elongation at Break	**1.7**	%	ASTM D 638
Flexural Modulus	**27100**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**75**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**936**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	**332**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**10000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.05**	%	ASTM D 570
Density	**1400**	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

Applications
Automotive

Special Characteristics
Increased electrical conductivity

Regional Availability
North America, Europe, Asia Pacific