LNP™ THERMOCOMP™ Compound EC004APQ

PEI-CF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP EC004APQ compound is based on Polyetherimide (PEI) resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive, FAR25.853 Compliant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.3**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.55**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**19140**	MPa	ASTM D 638
Tensile Strength at Break	**245**	MPa	ASTM D 638
Elongation at Break	**2.3**	%	ASTM D 638
Flexural Modulus	**15800**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**109**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**711**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	**170**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1000000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	**0.15**	%	ASTM D 570
Density	**1330**	kg/m³	ASTM D 792

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

Applications

Automotive

Special Characteristics

Increased electrical conductivity

Regional Availability

North America, Europe, Asia Pacific