LNP™ STAT-KON™ Compound JX89626

PESU-CF15 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON JX89626 compound is based on Polyethersulfone (PES) resin containing 15% 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	**0.65**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**11200**	MPa	ISO 527
Stress at break	**161**	MPa	ISO 527
Strain at break	**2.2**	%	ISO 527
Flexural modulus	**9670**	MPa	ISO 178
Flexural strength	**226**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**36**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**11940**	MPa	ASTM D 638
Tensile Strength at Break	**163**	MPa	ASTM D 638
Elongation at Break	**2.1**	%	ASTM D 638
Flexural Modulus	**10100**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**49**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**595**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**214**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**219**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**38**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**47**	E-6/K	ASTM D 696
DTUL @ 66 psi	**220**	°C	ASTM D 648
DTUL @ 264 psi	**214**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**100000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.71**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.49**	%	ASTM D 570
Density	**1410**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120 - 150**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.05**	%	-
Melt temperature	**355 - 370**	°C	-
Mold temperature	**140 - 150**	°C	-
Zone 1	**345 - 355**	°C	-
Zone 2	**360 - 370**	°C	-
Zone 3	**370 - 380**	°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