LNP™ STAT-KON™ Compound OE004A

PPS-CF20 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON OE004A compound is based on Polyphenylene Sulfide (PPS) branched resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link E45329-101343836

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**21600**	MPa	ISO 527
Yield stress	**185**	MPa	ISO 527
Strain at break	**1.1**	%	ISO 527
Flexural modulus	**15700**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**25**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**5**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**256**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**277**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**11**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**50**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

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

Other properties	Value	Unit	Test Standard
Density	**1410**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120 - 150**	°C	-
Pre-drying - Time	**4**	h	-
Melt temperature	**315 - 320**	°C	-
Mold temperature	**140 - 165**	°C	-
Zone 1	**305 - 315**	°C	-
Zone 2	**320 - 330**	°C	-
Zone 3	**330 - 345**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity