LNP™ STAT-KON™ Compound KE004 - Asia

POM-CF20 | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON KE004 compound is based on POM (Acetal) copolymer resin containing 20% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link E207780-101965203

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.7**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.7**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**1.7**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**13000**	MPa	ISO 527
Yield stress	**110**	MPa	ISO 527
Yield strain	**1.4**	%	ISO 527
Stress at break	**110**	MPa	ISO 527
Strain at break	**1.4**	%	ISO 527
Flexural modulus	**11500**	MPa	ISO 178
Flexural strength	**160**	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
ASTM Data			
Tensile Modulus	**14470**	MPa	ASTM D 638
Tensile Strength at Yield	**121**	MPa	ASTM D 638
Tensile Strength at Break	**121**	MPa	ASTM D 638
Elongation at Yield	**1.6**	%	ASTM D 638
Elongation at Break	**1.6**	%	ASTM D 638
Flexural Modulus	**11030**	MPa	ASTM D 790
Flexural Strength	**151**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**48**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**427**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**160**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**163**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 66 psi	**162**	°C	ASTM D 648
DTUL @ 264 psi	**160**	°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
Density	**1470**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.2**	%	ASTM D 570
Density	**1470**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-

Melt temperature	**200 - 215**	°C	-
Mold temperature	**80 - 110**	°C	-
Zone 1	**175 - 190**	°C	-
Zone 2	**195 - 205**	°C	-
Zone 3	**210 - 220**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
Increased electrical conductivity

Regional Availability
Asia Pacific