LNP™ STAT-KON™ Compound KX02764

POM-CD | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON KX02764 compound is based on POM (Acetal) copolymer resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**2.5**	%	ISO 294-4, 2577
Molding shrinkage, normal	**2.5**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**2.5**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**2.5**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3460**	MPa	ISO 527
Yield stress	**53**	MPa	ISO 527
Yield strain	**4**	%	ISO 527
Stress at break	**46**	MPa	ISO 527
Strain at break	**18.1**	%	ISO 527
Flexural modulus	**3010**	MPa	ISO 178
Flexural strength	**96**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**52**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**4**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**3480**	MPa	ASTM D 638
Tensile Strength at Yield	**53**	MPa	ASTM D 638
Tensile Strength at Break	**47**	MPa	ASTM D 638
Elongation at Yield	**3.8**	%	ASTM D 638
Elongation at Break	**10.2**	%	ASTM D 638
Flexural Modulus	**3010**	MPa	ASTM D 790
Flexural Strength	**100**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**42**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**373**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**103**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	**106**	°C	ASTM D 648

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

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.25**	%	Sim. to ISO 62
Density	**1430**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.18**	%	ASTM D 570
Density	**1440**	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

Applications
Automotive

Special Characteristics
Increased electrical conductivity

Regional Availability
North America, Europe, Asia Pacific