

Product Texts

LNP STAT-KON KEP33 compound is based on POM (Acetal) copolymer resin containing 15% carbon fiber, 15% PTFE/silicone. Added features of this grade include: Electrically Conductive, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10200	MPa	ISO 527
Stress at break	74	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	8270	MPa	ISO 178
Flexural strength	106	MPa	ISO 178
Izod impact strength, +23°C, 4mm	17	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	3	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	10200	MPa	ASTM D 638
Tensile Strength at Break	77	MPa	ASTM D 638
Elongation at Break	1.1	%	ASTM D 638
Flexural Modulus	7140	MPa	ASTM D 790
Flexural Strength	114	MPa	ASTM D 790
Izod Impact notched, 1/8 in	32	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	128	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	155	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	66	°C	ASTM D 648

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

Other properties	Value	Unit	Test Standard
Humidity absorption	0.32	%	Sim. to ISO 62
Density	1460	kg/m ³	ISO 1183
Water Absorption, 24hr	0.21	%	ASTM D 570
Density	1470	kg/m ³	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

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity