

Product Texts

LNP STAT-KON DX05042 compound is based on Polycarbonate (PC) resin containing 10% PTFE, 20% carbon fiber, 5% glass fiber. Added features of this grade include: Electrically Conductive, Wear Resistant, Easy Molding.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	16400	MPa	ISO 527
Stress at break	167	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	14100	MPa	ISO 178
Charpy impact strength, +23°C	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C, 4mm	45	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	16400	MPa	ASTM D 638
Tensile Strength at Break	169	MPa	ASTM D 638
Elongation at Break	2.4	%	ASTM D 638
Flexural Modulus	13100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	100	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	640	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	137	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	144	°C	ISO 75-1/-2
Vicat softening temperature, B	143	°C	ISO 306
ASTM Data			
DTUL @ 264 psi	135	°C	ASTM D 648
Vicat Temperature	143	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	0.27	%	Sim. to ISO 62
Humidity absorption	0.08	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.02	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°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