

LNP* Stat-kon* Compound KD000

Americas: COMMERCIAL

Also known as: K

Product Reorder Name: KD000

LNP STAT-KON* KD000 is a compound based on Acetal resin containing Carbon Powder. Added features of this material include: Electrically Conductive.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yield	55	MPa	ASTM D 638
Tensile Stress, break	53	MPa	ASTM D 638
Tensile Strain, yield	3.9	%	ASTM D 638
Tensile Strain, break	6.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	3560	MPa	ASTM D 638
Flexural Stress	100	MPa	ASTM D 790
Flexural Modulus	3260	MPa	ASTM D 790
Tensile Stress, yield	53	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, yield	4	%	ISO 527
Tensile Strain, break	18.1	%	ISO 527
Tensile Modulus, 1 mm/min	3190	MPa	ISO 527
Flexural Stress	83	MPa	ISO 178
Flexural Modulus	3220	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	897	J/m	ASTM D 4812
Izod Impact, notched, 23°C	37	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	6	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	106	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.78E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.23E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	8.78E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.23E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	103	°C	ISO 75/Af
PHYSICAL			
Density	1.44	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.1 - 2.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.1 - 2.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.1 - 2.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.1 - 2.5	%	ISO 294
Density	1.44	g/cm ³	ISO 1183

Moisture Absorption (23°C / 50% RH)	0.32	%	ISO 62
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:10/01/2004

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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