

LNP* Stat-kon* Compound TD000

Americas: COMMERCIAL

Also known as: T
Product Reorder Name: TD000

LNP* Stat-kon* TD000 is a compound based on Polyurethane resin. Added features of this material include: Electrically Conductive.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, break	25	MPa	ASTM D 638
Tensile Stress, yld, Type I, 50 mm/min	26	MPa	ASTM D 638
Tensile Strain, break	160	%	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	160	%	ASTM D 638
Tensile Modulus, 50 mm/min	180	MPa	ASTM D 638
Flexural Stress	6	MPa	ASTM D 790
Flexural Modulus	360	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	24	MPa	ISO 527
Tensile Stress, break, 5 mm/min	24	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	140	%	ISO 527
Tensile Strain, break, 5 mm/min	140	%	ISO 527
Tensile Modulus, 1 mm/min	300	MPa	ISO 527
Flexural Stress	16	MPa	ISO 178
Flexural Modulus, 2 mm/min	350	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1003	J/m	ASTM D 4812
Izod Impact, notched, 23°C	794	J/m	ASTM D 256
Multiaxial Impact	55	J	ISO 6603
Instrumented Impact Total Energy, 23°C	50	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	87	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	78	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	70	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	47	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.2E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.4E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	69	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	48	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.26	-	ASTM D 792
Density	1.26	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.79	%	ISO 62
ELECTRICAL			
Surface Resistivity	3.E+00 - 5.E+00	Ohm	ASTM D 257

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80 - 95	°C
Drying Time	2 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.01	%
Melt Temperature	220 - 260	°C
Nozzle Temperature	220 - 260	°C
Front - Zone 3 Temperature	215 - 240	°C
Middle - Zone 2 Temperature	205 - 225	°C
Rear - Zone 1 Temperature	190 - 210	°C
Mold Temperature	50 - 70	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm
Shot to Cylinder Size	50 - 70	%
Vent Depth	0.038 - 0.051	mm

Source GMD, last updated:08/12/2008

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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