

LNP* Stat-kon* Compound DE002

Asia Pacific: COMMERCIAL

Also known as: STAT-KON DC-1002
Product Reorder Name: DE002

LNP* Stat-Kon* DE002 is a Polycarbonate containing Carbon Fiber.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	97	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	7.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	11140	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	159	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7460	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	97	MPa	ISO 527
Tensile Strain, break, 5 mm/min	7.2	%	ISO 527
Tensile Modulus, 1 mm/min	10340	MPa	ISO 527
Flexural Stress	149	MPa	ISO 178
Flexural Modulus, 2 mm/min	7440	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	9	J/m	ASTM D 4812
Izod Impact, notched, 23°C	1	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.6E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	5.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	145	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.29	-	ASTM D 792
Density	1.29	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.08	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4 - 0.6	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.08	%	ISO 62
ELECTRICAL			
Volume Resistivity	4.E+00 - 6.E+00	Ohm-cm	ASTM D 257
Surface Resistivity	3.E+00 - 5.E+00	Ohm	ASTM D 257

Source GMD, last updated:09/11/2008

Processing

Parameter	Value	Unit
Injection Molding		

Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/11/2008

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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