

## LNP\* Stat-kon\* Compound DE002ER

Americas: COMMERCIAL

Also known as: DC-1002 EM MR  
Product Reorder Name: DE002ER

LNP STAT-KON\* DE002ER is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Easy Molding.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	100	MPa	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	6960	MPa	ASTM D 638
Flexural Stress	165	MPa	ASTM D 790
Flexural Modulus	6130	MPa	ASTM D 790
Tensile Stress, break	102	MPa	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	6800	MPa	ISO 527
Flexural Stress	170	MPa	ISO 178
Flexural Modulus	6960	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	563	J/m	ASTM D 4812
Izod Impact, notched, 23°C	95	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	19	J	ASTM D 3763
Multiaxial Impact	4	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m <sup>2</sup>	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.64E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.83E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.65E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.83E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.23	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.17	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.06 - 0.32	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.29 - 0.43	%	ISO 294
Density	1.23	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.66	%	ISO 62
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

## 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:09/30/2004

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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