



LNP™ STAT-KON™ Compound DE002ER

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DC-1002 EM MR

Product reorder name: DE002ER

LNP STAT-KON™ DE002ER is a compound based on Polycarbonate resin containing 10% Carbon Fiber. Added features of this material include: Easy Molding. Mold Release, Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1020	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	71000	kgf/cm ²	ASTM D 638
Flexural Stress	1680	kgf/cm ²	ASTM D 790
Flexural Modulus	62500	kgf/cm ²	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			
Izod Impact, unnotched, 23°C	57	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	202	cm-kgf	ASTM D 3763
Multiaxial Impact	43	cm-kgf	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	7	kJ/m ²	ISO 180/1A
THERMAL			
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



LNP™ STAT-KON™ Compound DE002ER

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
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			
Density	1.23	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.17	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.06 - 0.32	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.29 - 0.43	%	ISO 294
Density	1.23	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.66	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257



LNP™ STAT-KON™ Compound DE002ER

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL 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