LNP™ STAT-KON™ COMPOUND DE002

DC-1002
REGION ASIA

DESCRIPTION

LNP* STAT-KON* DE002 is a Polycarbonate base resin containing 10% Carbon Fiber. Added feature of this grade is: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20181102

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	7.3	%	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	685	J/m	ASTM D 4812
Izod Impact, notched, 23°C	85	J/m	ASTM D 256
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/cm³	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	10000 – 1000000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+03 – 1.E+05	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

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