LNP™ STAT-KON™ COMPOUND DE003P

DC-1003 EP
REGION ASIA

DESCRIPTION

LNP STAT-KON* DE003P is a compound based on Polycarbonate resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive, Exceptional Processing.

TYPICAL PROPERTY VALUES

Revision 20190107

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	121	MPa	ASTM D 638
Tensile Strain, break	1.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	11160	MPa	ASTM D 638
Flexural Stress	193	MPa	ASTM D 790
Flexural Modulus	9920	MPa	ASTM D 790
Tensile Stress, break	110	MPa	ISO 527
Tensile Strain, break	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	9880	MPa	ISO 527
Flexural Stress	184	MPa	ISO 178
Flexural Modulus	9770	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	425	J/m	ASTM D 4812
Izod Impact, notched, 23°C	77	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	16	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	145	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	142	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.24E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.93E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.25E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.93E-05	1/°C	ISO 11359-2
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			
Density	1.25	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.04 – 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.04 – 0.13	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.32 – 0.41	%	ISO 294

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption (23°C / 50% RH)	0.4	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
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	

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