LNP™ STAT-KON™ COMPOUND DD000P

D- EP
REGION ASIA

DESCRIPTION

LNP* STAT-KON* DD000P is a compound based on Polycarbonate resin containing Carbon. Added features of this material include: Electrically Conductive, Exceptional Processing.

TYPICAL PROPERTY VALUES

Revision 20190402

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	57	MPa	ASTM D 638
Tensile Stress, break	49	MPa	ASTM D 638
Tensile Strain, yield	4.8	%	ASTM D 638
Tensile Strain, break	20.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	2750	MPa	ASTM D 638
Flexural Modulus	2750	MPa	ASTM D 790
Tensile Stress, yield	57	MPa	ISO 527
Tensile Stress, break	51	MPa	ISO 527
Tensile Strain, yield	4.8	%	ISO 527
Tensile Strain, break	9.9	%	ISO 527
Tensile Modulus, 1 mm/min	2800	MPa	ISO 527
Flexural Stress	78	MPa	ISO 178
Flexural Modulus	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2226	J/m	ASTM D 4812
Izod Impact, notched, 23°C	234	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	40	J	ASTM D 3763
Multiaxial Impact	40	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	205	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	135	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.66E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.48E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.6E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°C	ISO 75/Af
PHYSICAL			
Density	1.23	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.74	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.84	%	ISO 294
Density	1.23	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+03 – 1.E+09	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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