LNP™ STAT-KON™ COMPOUND DD0001I

EXSK-D-0059

DESCRIPTION

LNP* STAT-KON* DD0001I is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: ECO FR, High Impact, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	65	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	50	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	13	%	ASTM D 638
Tensile Modulus, 5 mm/min	3600	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	114	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3700	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	64	MPa	ISO 527
Tensile Stress, break, 5 mm/min	52	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.5	%	ISO 527
Tensile Strain, break, 5 mm/min	8	%	ISO 527
Tensile Modulus, 1 mm/min	3490	MPa	ISO 527
Flexural Stress	109	MPa	ISO 178
Flexural Modulus, 2 mm/min	3420	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1150	J/m	ASTM D 4812
Izod Impact, notched, 23°C	46	J/m	ASTM D 256
Multiaxial Impact	11	J	ISO 6603
Instrumented Impact Total Energy, 23°C	46	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	62	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	91	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	84	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	83	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.28	-	ASTM D 792
Density	1.28	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

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption (23°C / 50% RH)	0.12	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+05	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4 – 6	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	255 – 290	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	255 – 265	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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