LNP™ STAT-KON™ COMPOUND DD0009XP

D-FR
REGION ASIA

DESCRIPTION

LNP STAT-KON D-FR is a compound based on Polycarbonate resin containing Carbon. Added features of this grade include: Flame Retardant, Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	62	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	5.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	2820	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	108	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2820	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	60	MPa	ISO 527
Tensile Stress, break, 5 mm/min	57	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.2	%	ISO 527
Tensile Strain, break, 5 mm/min	7.5	%	ISO 527
Tensile Modulus, 1 mm/min	2810	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	102	MPa	ISO 178
Flexural Modulus, 2 mm/min	2880	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1625	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	11	J	ASTM D 3763
Multiaxial Impact	6	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	70	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.2E-05	1/°C	ASTM E 831
CTE, 23°C to 60°C, flow	5.36E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.67E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
Relative Temp Index, Elec [1]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	80	°C	UL 746B

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Density	1.3	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.18	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7	%	ASTM D 955
ELECTRICAL			
Surface Resistivity	1.E+05 – 1.E+10	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101283852	-	-
UL Recognized, 94V-0 Flame Class Rating	1.7	mm	UL 94
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	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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