

## LNP\* Stat-kon\* Compound DD0009

Americas: COMMERCIAL

Also known as: D-FR

Product Reorder Name: DD0009

LNP\* Stat-kon\* DD0009 is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, yield	61	MPa	ASTM D 638
Tensile Stress, break	53	MPa	ASTM D 638
Tensile Strain, yield	1.2	%	ASTM D 638
Tensile Strain, break	5.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	2820	MPa	ASTM D 638
Flexural Stress	108	MPa	ASTM D 790
Flexural Modulus	2820	MPa	ASTM D 790
Tensile Stress, yield	62	MPa	ISO 527
Tensile Stress, break	57	MPa	ISO 527
Tensile Strain, yield	4.1	%	ISO 527
Tensile Strain, break	7.5	%	ISO 527
Tensile Modulus, 1 mm/min	2810	MPa	ISO 527
Flexural Stress	102	MPa	ISO 178
Flexural Modulus	2880	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	1556	J/m	ASTM D 4812
Izod Impact, notched, 23°C	68	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Multiaxial Impact	5	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	70	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.36E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.67E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.36E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°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
<b>PHYSICAL</b>			
Density	1.32	g/cm <sup>3</sup>	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
Mold Shrinkage, flow, 24 hrs	0.75	%	ISO 294

Mold Shrinkage, xflow, 24 hrs	0.72	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.27	%	ISO 62
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	4.E+00 - 6.E+00	Ohm	ASTM D 257
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.7	mm	UL 94 by GE

Source GMD, last updated:09/30/2004

## Processing

Parameter	Value	Unit
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

Source GMD, last updated:09/30/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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