

## LNP\* Stat-kon\* Compound DE0029

Asia Pacific: COMMERCIAL

Also known as: DC-1002 FR  
Product Reorder Name: DE0029

LNP\* Stat-kon\* DE0029 is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant.

### Property

TYPICAL PROPERTIES <sup>(1)</sup>			
	Value	Unit	Standard
<b>MECHANICAL</b>			
Tensile Stress, break	104	MPa	ASTM D 638
Tensile Strain, break	5.9	%	ASTM D 638
Flexural Stress	158	MPa	ASTM D 790
Flexural Modulus	7580	MPa	ASTM D 790
Tensile Stress, break	104	MPa	ISO 527
Tensile Strain, break	6.2	%	ISO 527
Flexural Stress	149	MPa	ISO 178
Flexural Modulus	7400	MPa	ISO 178
<b>IMPACT</b>			
	Value	Unit	Standard
Izod Impact, unnotched, 23°C	490	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	293	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	286	°C	ASTM D 648
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
<b>PHYSICAL</b>			
	Value	Unit	Standard
Density	1.29	g/cm <sup>3</sup>	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 - 0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.19	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.39	%	ISO 294
Density	1.29	g/cm <sup>3</sup>	ISO 1183
<b>ELECTRICAL</b>			
	Value	Unit	Standard
Volume Resistivity	1.E+04 - 1.E+07	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+03 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:09/24/2008

### Processing

Parameter	Value	Unit
<b>Injection Molding</b>		
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

Source GMD, last updated:09/24/2008

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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