

LNP* Stat-kon* Compound Valox_VCF2020

Americas: COMMERCIAL

LNP* Stat-kon* Valox_VCF2020 compound is a 20% carbon fiber reinforced PET. Conductive applications.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	152	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	152	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	16750	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	219	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	12900	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	384	J/m	ASTM D 4812
Izod Impact, notched, 23°C	32	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	3	J	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	247	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	208	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	245	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.98E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.4E-04	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.41	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.9	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.7 - 1.1	%	SABIC Method
Melt Flow Rate, 266°C/5.0 kgf	47	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	1.E+00	Ohm-cm	IEC 60093

Source GMD, last updated:04/10/2002

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	12	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	255 - 275	°C
Nozzle Temperature	250 - 270	°C
Front - Zone 3 Temperature	255 - 275	°C
Middle - Zone 2 Temperature	250 - 270	°C
Rear - Zone 1 Temperature	245 - 265	°C
Mold Temperature	65 - 90	°C

Back Pressure	0.3 - 0.7	MPa
Screw Speed	50 - 80	rpm
Shot to Cylinder Size	40 - 80	%
Vent Depth	0.025 - 0.038	mm

Source GMD, last updated:04/10/2002

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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