LNP* Stat-kon* Compound WE002

Americas: COMMERCIAL

Also known as: WC-1002 Product Reorder Name: WE002

LNP STAT-KON* WE002 is a compound based on Polybutylene Terephalate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	133	MPa	ASTM D 638
Tensile Strain, break	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	10140	MPa	ASTM D 638
Flexural Stress	181	MPa	ASTM D 790
Flexural Modulus	7390	MPa	ASTM D 790
Tensile Stress, break	125	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	10460	MPa	ISO 527
Flexural Stress	184	MPa	ISO 178
Flexural Modulus	7760	MPa	ISO 178
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	437	J/m	ASTM D 4812
Izod Impact, notched, 23°C	37	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	29	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	208	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.17E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.91E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.18E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.92E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.35	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.09	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.9 - 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.39 - 0.56	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.91 - 1.14	%	ISO 294
Density	1.34	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:10/01/2004



Processing

Parameter			
Injection Molding	,	Value	Unit
Drying Temperature		120	°C
Drying Time		4	hrs
Maximum Moisture Content		0.05	%
Melt Temperature	24	40 - 265	°C
Front - Zone 3 Temperature	26	60 - 270	°C
Middle - Zone 2 Temperature	24	45 - 255	°C
Rear - Zone 1 Temperature	22	20 - 230	°C
Mold Temperature	8	0 - 100	°C
Back Pressure	0	.2 - 0.3	MPa
Screw Speed		30 - 60	rpm
Screw Speed		30 - 60 wrae CMD leet wr	

Source GMD, last updated:10/01/2004

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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