SABIC Innovative Plastics™

LNP* Stat-kon* Compound DEL22P

Americas: COMMERCIAL

Also known as: DCL-4022 EP
Product Reorder Name: DEL22P

LNP STAT-KON* DEL22P is a compound based on Polycarbonate resin containing Carbon Fiber, PTFE. Added features of this material include: Electrically Conductive.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	100	MPa	ASTM D 638
Tensile Strain, break	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	7900	MPa	ASTM D 638
Flexural Stress	152	MPa	ASTM D 790
Flexural Modulus	5690	MPa	ASTM D 790
Tensile Stress, break	101	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	8170	MPa	ISO 527
Flexural Modulus	150	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	283	J/m	ASTM D 4812
Izod Impact, notched, 23°C	74	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	13	J	ASTM D 3763
Multiaxial Impact	102	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	34	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	134	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.4E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.6E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.5E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.6E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	143	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.3	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 0.75-2.3 mm	0.1 - 0.3	%	SABIC Method
Mold Shrinkage, flow	0.1 - 0.3	%	SABIC Method
Mold Shrinkage, xflow, 0.75-2.3 mm	0.4 - 0.6	%	SABIC Method
Mold Shrinkage, xflow	0.4 - 0.6	%	SABIC Method
Wear Factor Washer	15	10^-10 in^5-min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.55	-	ASTM D 3702 Modified
Static COF	0.52	-	ASTM D 3702 Modified
Density	1.3	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.18	%	ISO 62
ELECTRICAL	Value	Unit	Standard

Volume Resistivity	1.E+02	Ohm-cm	IEC 60093
Surface Resistivity, ROA	1.E+02 - 1.E+06	Ohm	IEC 60093

Source GMD, last updated:07/05/2006

Processing

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.