

LNP* Stat-kon* Compound DX05305C

Americas: COMMERCIAL

Also known as: PDX-D-05305 CCS
Product Reorder Name: DX05305C

LNP* Stat-kon* DX05305C is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Clean Compounding System.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yield	22	MPa	ASTM D 638
Tensile Stress, break	52	MPa	ASTM D 638
Tensile Strain, yield	1.9	%	ASTM D 638
Tensile Strain, break	5.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	2650	MPa	ASTM D 638
Flexural Stress	96	MPa	ASTM D 790
Flexural Modulus	2590	MPa	ASTM D 790
Tensile Stress, break	54	MPa	ISO 527
Tensile Strain, break	4024	%	ISO 527
Tensile Modulus, 1 mm/min	2620	MPa	ISO 527
Flexural Stress	101	MPa	ISO 178
Flexural Modulus	2730	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1012	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	2	J	ASTM D 3763
Multiaxial Impact	5	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	80	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	142	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.48E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.12E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.14E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.15E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	132	°C	ISO 75/Af
PHYSICAL			
Density	1.22	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	74	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	61	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.74	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.61	%	ISO 294
Density	1.22	g/cm ³	ISO 1183

ELECTRICAL	Value	Unit	Standard
Volume Resistivity	1.E+02 - 1.E+05	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+05	Ohm	ASTM D 257

Source GMD, last updated:03/28/2006

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.

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