LNP™ STAT-KON™ COMPOUND DX96573C

PDX-D-96573 CCS

DESCRIPTION

LNP™ STAT-KON™ DX96573C is a compound based on Polycarbonate resin containing proprietary fillers. Added features of this grade include: Clean Compound System, Statically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Modulus, 5 mm/min	3008	MPa	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	64	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	20	%	ASTM D 638
Tensile Modulus, 1 mm/min	2913	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	63	MPa	ISO 527
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.9	%	ISO 527
Tensile Strain, break, 5 mm/min	20	%	ISO 527
Flexural modulus	2890	MPa	ASTM D 790
Flexural Modulus	2771	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	65.8	J/m	ASTM D 256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Instrumented Impact Total Energy, 23°C	41	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	7.5	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Multiaxial Impact	38	J	ISO 6603
THERMAL			
HDT, 1.8 MPa, 3.2mm, unannealed	133	°C	ASTM D 648
HDT, 0.45 MPa, 3.2 mm, unannealed	142	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Bf
CTE, -30°C to 30°C, flow	0.000062	1/°C	ASTM E 831
CTE, -30°C to 30°C, xflow	0.000063	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.25	-	ASTM D 792
Density	1.25	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.74	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.85	%	ASTM D 955
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Moisture Absorption (23°C / 50% RH)	0.23	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL			
Surface Resistivity	2 – 5	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	121	°C	
Drying Time	4	hrs	
Melt Temperature	304 – 326	°C	
Front - Zone 3 Temperature	321 – 332	°C	
Middle - Zone 2 Temperature	310 – 321	°C	
Rear - Zone 1 Temperature	293 – 304	°C	
Mold Temperature	82 – 110	°C	
Back Pressure	0.17 – 0.34	MPa	
Screw Speed	30 – 60	rpm	
Maximum Moisture Content	0.02	%	

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