LNP™ STAT-KON™ COMPOUND DX04490R

DX04490R

DESCRIPTION

LNP STAT-KON DX04490R is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this grade is: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	60	MPa	ASTM D 638
Tensile Stress, break	53	MPa	ASTM D 638
Tensile Strain, yield	4.2	%	ASTM D 638
Tensile Strain, break	16.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	2980	MPa	ASTM D 638
Flexural Stress	89	MPa	ASTM D 790
Flexural Modulus	2710	MPa	ASTM D 790
Tensile Stress, yield	61	MPa	ISO 527
Tensile Stress, break	54	MPa	ISO 527
Tensile Strain, yield	4.5	%	ISO 527
Tensile Strain, break	8.5	%	ISO 527
Tensile Modulus, 1 mm/min	2710	MPa	ISO 527
Flexural Stress	75	MPa	ISO 178
Flexural Modulus	2510	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2342	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	4	J	ASTM D 3763
Multiaxial Impact	9	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	167	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 40°C, flow	6.3E-.05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.94E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	6.35E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.08E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	133	°C	ISO 75/Af
Relative Temp Index, Elec (1)	80	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	80	°C	UL 746B
PHYSICAL			
Density	1.23	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	.2	%	ASTM D 570

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	.42	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	.5	%	ISO 294
Density	1.23	g/cm³	ISO 1183
ELECTRICAL			
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
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E121562-103809971	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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