

LNPTM STAT-KONTM COMPOUND DX04490R

DX04490R

DESCRIPTION

LNP STAT-KON DX04490R compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Electrically Conductive, Radar Absorbing.

GENERAL INFORMATION

Features	Electrically Conductive, Radar Absorption
Fillers	Proprietary Filler
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY

Automotive
Electrical and Electronics
Industrial

SUB INDUSTRY

Automotive Under the Hood
Electronic Components
Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	60	MPa	ASTM D638
Tensile Strain, yield	4.2	%	ASTM D638
Tensile Strain, break	16.3	%	ASTM D638
Tensile Modulus, 50 mm/min	2980	MPa	ASTM D638
Flexural Stress	89	MPa	ASTM D790
Flexural Modulus	2710	MPa	ASTM D790
Tensile Stress, yield	61	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 ⁽¹⁾			
Izod Impact, unnotched, 23°C	2342	J/m	ASTM D4812
Izod Impact, notched, 23°C	48	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	4	J	ASTM D3763
Multiaxial Impact	9	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	167	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D648

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	6.30E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	5.94E-05	1/°C	ASTM E831
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 ⁽²⁾	80	°C	UL 746B
Relative Temp Index, Mech w/impact ⁽²⁾	80	°C	UL 746B
Relative Temp Index, Mech w/o impact ⁽²⁾	80	°C	UL 746B
PHYSICAL ⁽¹⁾			
Density	1.23	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.2	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽³⁾	0.4	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	0.5	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽³⁾	0.42	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	0.5	%	ISO 294
Density	1.23	g/cm ³	ISO 1183
ELECTRICAL ⁽¹⁾			
Volume Resistivity ⁽⁴⁾	1.E+02 – 1.E+05	Ω.cm	ASTM D257
Surface Resistivity ⁽⁴⁾	1.E+02 – 1.E+05	Ω	ASTM D257
FLAME CHARACTERISTICS ⁽²⁾			
UL Yellow Card Link	E121562-103809971	-	-
UL Recognized, 94HB Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING ⁽⁵⁾			
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) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) 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.

(3) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(4) Measurement meets requirements as specified in ASTM D4496.

(5) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.



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