

LNPTM STAT-KONTM COMPOUND DX96717C

PDX-D-96717 LEX

DESCRIPTION

LNP STAT-KON DX96717C compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Flame Retardant.

GENERAL INFORMATION	
Features	Flame Retardant, Electrically Conductive, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL ⁽¹⁾			
Tensile Stress, yield	63	MPa	ASTM D638
Tensile Stress, break	54	MPa	ASTM D638
Tensile Strain, yield	5	%	ASTM D638
Tensile Strain, break	9.9	%	ASTM D638
Tensile Modulus, 50 mm/min	2480	MPa	ASTM D638
Flexural Stress	98	MPa	ASTM D790
Flexural Modulus	2890	MPa	ASTM D790
Tensile Stress, yield	61	MPa	ISO 527
Tensile Stress, break	51	MPa	ISO 527
Tensile Strain, yield	4.7	%	ISO 527
Tensile Strain, break	11.1	%	ISO 527
Tensile Modulus, 1 mm/min	2700	MPa	ISO 527
Flexural Stress	98	MPa	ISO 178
Flexural Modulus	2800	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1831	J/m	ASTM D4812
Izod Impact, notched, 23°C	64	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	27	J	ASTM D3763
Izod Impact, unnotched 80*10*4 +23°C	123	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL ⁽¹⁾			
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D648

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT, 1.82 MPa, 3.2mm, unannealed	131	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75 /Af
PHYSICAL ⁽¹⁾			
Density	1.3	g/cm ³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.17	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.7	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.7	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽²⁾	0.75	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽²⁾	0.75	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62
ELECTRICAL ⁽¹⁾			
Surface Resistivity ⁽³⁾	1.E+04 – 1.E+08	Ω	ASTM D257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating ⁽⁴⁾	1.8	mm	UL 94 by SABIC-IP
INJECTION MOLDING ⁽⁵⁾			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
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) 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.
- (3) Measurement meets requirements as specified in ASTM D4496.
- (4) UL rating shown here is based on internal measurements.
- (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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