

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

MECHANICAL (¹¹) 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 2800 MPa ISO 527 Flexural Modulus 2800 MPa ISO 178 Flexural Modulus 2800 MPa ISO 178 Impact, unnotched, 23°C 1831 J/m ASTM D4812 Izod Impact, unnotched, 23°C 27 J ASTM D3763<	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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 Strain, yield 4.7 % ISO 527 Tensile Strain, break 1.1 % ISO 527 Tensile Modulus, 1 mm/min 2700 MPa ISO 527 Flexural Stress 98 MPa ISO 178 Flexural Modulus 1 mp ISO 178 ISO 178 Flexural Stress 98 MPa ISO 178 Flexural Modulus 1 mp ISO 178 ISO 178 Flexural Modulus 3 mp ISO 178 ISO 178 Instrumented Jumotched, 23°C 4 mp ASTM D4812 ISO 180 D4812 Izod Impact, un	MECHANICAL (1)			
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 Strain, yield 4.7 % ISO 527 Tensile Strain, break 11.1 % ISO 527 Tensile Modulus, 1 mm/min 2700 MPa ISO 178 Flexural Stress 98 MPa ISO 178 Flexural Modulus 2800 MPa ISO 178 Impact (1) 2800 MPa ISO 178 Impact (2) 150 Impact, unnotched, 23°C 1831 J/m ASTM D4812 Izod Impact, notched, 23°C 27 J ASTM D563 Iso 10mpact, unnotched 80°10°4 + 23°C 27 J ASTM D5763 Izod Impact, unnotched 80°10°4 + 23°C 123 Iso 10mpact, unnotched 80°10°4 + 2	Tensile Stress, yield	63	MPa	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 178 Flexural Stress 98 MPa ISO 178 Flexural Modulus 2800 MPa ISO 178 Impact (1) 4 X X Impact (2) 1 ASTM D4812 Izod Impact, unnotched, 23°C 1831 J/m ASTM D4812 Izod Impact, notched, 23°C 27 ASTM D3763 Izod Impact, unnotched 80°10°4 + 23°C 27 ASTM D3763 Izod Impact, notched 80°10°4 + 23°C 23 KJm²	Tensile Stress, break	54	MPa	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 Modulus, 1 mm/min 2700 MPa ISO 527 Flexural Stress MPa ISO 178 Secondary Flexural Modulus 280 MPa ISO 178 Secondary Impact Instrumented Modulus 1831 J/m ASTM D4812 ASTM D256 Izod Impact, unnotched, 23°C 1831 J/m ASTM D4812 ASTM D256 Instrumented Dart Impact Energy@peak, 23°C 27 J ASTM D3763 ASTM D3763 Izod Impact, unnotched 80°10°4 + 23°C 23 kJ/m² ISO 180/1U Iso 180/1U Itensile Strain, yield 4 4 4 4 ASTM D3763 ASTM D3763 ASTM D3763 AS	Tensile Strain, yield	5	%	ASTM D638
Flexural Stress 98 MPa ASTM D790 Flexural Modulus 2890 MPa ASTM D790 Tensile Stress, yield 61 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) J/m ASTM D4812 Izod Impact, unnotched, 23°C 1831 J/m ASTM D256 Instrumented Dart Impact Energy @ peak, 23°C 27 J/m ASTM D3763 Izod Impact, unnotched 80°10°4 + 23°C 123 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 9 kJ/m² ISO 180/1U ItemMAL (1)	Tensile Strain, break	9.9	%	ASTM D638
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 178 Flexural Stress 98 MPa ISO 178 Flexural Modulus 2800 MPa ISO 178 ImpACT (¹¹) 2 Impact, unnotched, 23°C ISS 183 J/m ASTM D4812 Izod Impact, unnotched, 23°C 64 J/m ASTM D256 Instrumented Dart Impact Energy @ peak, 23°C 27 J/m ASTM D3763 Izod Impact, unnotched 80°10°4 + 23°C 123 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 9 kJ/m² ISO 180/1U IterMAL (¹¹)	Tensile Modulus, 50 mm/min	2480	MPa	ASTM D638
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 178 Flexural Stress 98 MPa ISO 178 IMPACT (1) Lod Impact, unnotched, 23°C J/m ASTM D4812 Izod Impact, unnotched, 23°C 131 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/m² ISO 180/1U Izod Impact, notched 80*10*4 + 23°C 9 kJ/m² ISO 180/1U IteRMAL (1)	Flexural Stress	98	MPa	ASTM D790
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 WPa ISO 178 IMPACT (1) 2800 MPa ISO 178 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/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 9 kJ/m² ISO 180/1A	Flexural Modulus	2890	MPa	ASTM D790
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 WPa ISO 178 IMPACT (1) J/m ASTM D4812 Izod Impact, unnotched, 23°C 1831 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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1) THERMAL (1) THERMAL (1) KJ (1) ISO 180/1A	Tensile Stress, yield	61	MPa	ISO 527
Tensile Strain, break 11.1 % ISO 527 Tensile Modulus, 1 mm/min 2700 MPa ISO 527 Flexural Stress 98 MPa ISO 178 IMPACT (1) WPa ISO 178 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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 KJ/m² ISO 180/1A THERMAL (1) Impact, notched 80*10*4 +23°C KJ/m² ISO 180/1A	Tensile Stress, break	51	MPa	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) 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/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 9 kJ/m² ISO 180/1A THERMAL (¹) THERMAL (¹) Impact (¹) I	Tensile Strain, yield	4.7	%	ISO 527
Flexural Stress 98 MPa ISO 178 Flexural Modulus 2800 MPa ISO 178 IMPACT (¹) 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/m² ASTM D3763 Izod Impact, unnotched 80°10°4 + 23°C 123 kJ/m² ISO 180/1U Izod Impact, notched 80°10°4 + 23°C 9 kJ/m² ISO 180/1A THERMAL (¹¹)	Tensile Strain, break	11.1	%	ISO 527
Flexural Modulus MPa ISO 178 IMPACT (1) Izod Impact, unnotched, 23°C I831 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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1)	Tensile Modulus, 1 mm/min	2700	MPa	ISO 527
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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1) THERMAL (1) THERMAL (1) THERMAL (1)	Flexural Stress	98	MPa	ISO 178
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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1)	Flexural Modulus	2800	MPa	ISO 178
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/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1)	IMPACT (1)			
Instrumented Dart Impact Energy @ peak, 23°C 27 J ASTM D3763 Izod Impact, unnotched 80*10*4 +23°C 123 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1)	Izod Impact, unnotched, 23°C	1831	J/m	ASTM D4812
Izod Impact, unnotched 80*10*4 +23°C 123 kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 9 kJ/m² ISO 180/1A THERMAL (1)	Izod Impact, notched, 23°C	64	J/m	ASTM D256
	Instrumented Dart Impact Energy @ peak, 23°C	27	J	ASTM D3763
THERMAL (1)	Izod Impact, unnotched 80*10*4 +23°C	123	kJ/m²	ISO 180/1U
	Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
HDT, 0.45 MPa, 3.2 mm, unannealed 143 °C ASTM D648	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/cm³	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	Нгѕ	
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.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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