

LNPTM STAT-KONTM COMPOUND EX11318C

DESCRIPTION

LNP STAT-KON EX11318C is a polyetherimide compound reinforced with carbon fiber for good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding application. A unique feature of this material is its low C18-C40 hydrocarbons. This compound is manufactured using LNP CCS Technology.

TYPICAL PROPERTY VALUES

Revision 20191216

Tensile Strain, brk, Type I, 5 mm/min 1.9 % ASTM D 638 Tensile Modulus, 50 mm/min 21770 MPa ASTM D 638 Flexural Stress, brk, 1.3 mm/min, 50 mm span 270 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 18140 MPa ASTM D 790 IMPACT STM D 6412 STM D 6412 STM D 6412 tzod Impact, unnotched, 23°C 375 J/m ASTM D 648 tzod Impact, notched, 23°C 48 J/m ASTM D 648 THERMAL J/m ASTM D 648 ASTM D 648 CTC, 40°C to 40°C, flow 46-60 1/°C ASTM D 648 CTE, 40°C to 40°C, flow 45-60 1/°C ASTM E 831 CTE, 40°C to 40°C, flow 45-60 1/°C ASTM E 81 CTE, 40°C to 40°C, flow 10 2 10 45-8 Relative Tenp Index, Mech w/mapact (1) 10 2 10 45-8 Relative Temp Index, Mech w/mapact (1) 1.39 2 2 45-M D 792 Modisture Absorption, 50°R RI, 24 hrs 5 <t< th=""><th>PROPERTIES</th><th>TYPICAL VALUES</th><th>UNITS</th><th>TEST METHODS</th></t<>	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Strain, brit, Type I, 5 mm/min 1.9 % ASTM D 638 Tensile Strain, brit, Type I, 5 mm/min 21770 MPa ASTM D 638 Flexural Stress, brit, 1.3 mm/min, 50 mm span 18140 MPa ASTM D 790 Hexural Stress, brit, 1.3 mm/min, 50 mm span 18140 MPa ASTM D 790 IMPACT U ASTM D 638 ASTM D 638 IMPACT J /m ASTM D 648 ASTM D 648 Ized Impact, unnotched, 23°C 375 J/m ASTM D 648 Ized Impact, octobed, 23°C 48 J/m ASTM D 648 Ized May, 6,4 mm, unamealed 203 °C ASTM D 648 CTE, 40°C to 40°C, flow 4.66-06 1/°C ASTM E 831 CTE, 40°C to 40°C, flow 1,20 1/°C ASTM E 831 CTE, 40°C to 40°C, flow 1,20 1/°C ASTM E 831 CTE, 40°C to 40°C, flow 1,20 2 U.7 468 Relative Temp Index, Mech w/Jimpact (1) 1,20 3 ASTM D 570 Relative Temp Index, Mech w/Jimpact (1) 1,20 3 ASTM D 570	MECHANICAL			
Tensile Modulus, 50 mm/min 21770 MPa ASTM D 638 Flexural Modulus, 13 mm/min, 50 mm span 270 MPa ASTM D 790 Flexural Modulus, 13 mm/min, 50 mm span 18140 MPa ASTM D 790 IMPACT V V V Izod impact, unnotched, 23°C 375 I/m ASTM D 4812 Izod impact, unnotched, 23°C 48 I/m ASTM D 596 THERMA V ASTM D 648 C THERMA 48:06 1/m ASTM D 648 CTE, 40°C to 40°C, flow 4.86:06 1/m ASTM D 648 CTE, 40°C to 40°C, flow 4.86:06 1/m ASTM D 648 CTE, 40°C to 40°C, flow 4.86:06 1/m ASTM D 648 CTE, 40°C to 40°C, flow 4.86:06 1/m C ASTM D 648 CTE, 40°C to 40°C, flow 1.90 2.00 MC C 1.76 ASTM D 648 CTE, 40°C to 40°C, flow 1.90 2.00 2.00 MC ASTM D 648 CTE, 40°C to 40°C, flow 1.90 2.00	Tensile Stress, brk, Type I, 5 mm/min	211	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span 270 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 18140 MPa ASTM D 790 IMPACT IMPACT VIII ASTM D 4812 Load Impact, unnotched, 23°C 375 III J/m ASTM D 256 THERMAL III J/m ASTM D 648 ASTM D 648 CTE, 40°C to 40°C, flow 4.66.06 1/°C ASTM D 648 ASTM D 648 CTE, 40°C to 40°C, flow 4.66.06 1/°C ASTM D 648 ASTM D 648 Relative Temp Index, Mech w/impact ⁽¹⁾ 105 °C U.746B ASTM D 648 Relative Temp Index, Mech w/impact ⁽¹⁾ 105 °C U.746B ASTM D 648 Relative Temp Index, Mech w/impact ⁽¹⁾ 105 °C U.746B ASTM D 648 Relative Temp Index, Mech w/impact ⁽¹⁾ 10 9 C U.746B ASTM D 79 Wollsture Absorption, 50X RH, 24 ftrs 0.2 % ASTM D 79 ASTM D 79 BLECTION 2 % ASTM D 95 ASTM D 95	Tensile Strain, brk, Type I, 5 mm/min	1.9	%	ASTM D 638
Reaural Modulus, 1.3 mm/min, 50 mm span 18140 MPa ASTM D 790 IMPACT Impact, unnotched, 23°C 375 1/m ASTM D 4812 Lood impact, notched, 23°C 48 1/m ASTM D 4812 HERRMAL TEREMAL TEREMAL **C ASTM D 648 CTE, 40°C to 40°C, filow 4.66-06 1/°C ASTM E 831 CTE, 40°C to 40°C, filow 4.86-06 1/°C ASTM E 831 Relative Temp Index, Mech w/jimpact (**) 105 **C ASTM E 831 Relative Temp Index, Mech w/jimpact (**) 105 **C U.746B Relative Temp Index, Mech w/jimpact (**) 105 **C U.746B Relative Temp Index, Mech w/jimpact (**) 105 **C U.746B Mol Shrinkage, Mech w/jimpact (**) 129 Jem 20 XFM D 792 Mol Shrinkage, Mech w/jimpact (**) 1.02 3 ASTM D 792 Mol Shrinkage, Mech w/jimpact (**) 1.02 3 ASTM D 792 Mol Shrinkage, Mech w/jimpact (**) 1.02 3 MTM D 570 Mol Shrinkage, Ifow, 24 hrs	Tensile Modulus, 50 mm/min	21770	MPa	ASTM D 638
IMPACT Impact, unnotched, 23°C 375 J/m ASTM D 4812 Izod Impact, notched, 23°C 48 J/m ASTM D 4812 Izod Impact, notched, 23°C 48 J/m ASTM D 4812 Izod Impact, notched, 23°C 48 J/m ASTM D 4812 Izod Montante, 13 48 C ASTM D 4812 Izod Montante, notched, 23°C ASTM D 648 ASTM D 648 CTE, 40°C to 40°C, folow 40 C ASTM D 648 CTE, 40°C to 40°C, folow 43 26 C ASTM D 648 CTE, 40°C to 40°C, folow 43 26 C U.7468 Relative temp Index, Mech w/ Impact (1) 10 20 U.7468 C U.7468 Relative temp Index, Mech w/ Impact (1) 13 20 D.726 C U.7468 C C C C C C C C C D D D D D D D D D D	Flexural Stress, brk, 1.3 mm/min, 50 mm span	270	MPa	ASTM D 790
Izod Impact, unnotched, 23°C 375 J/m ASTM D 4812 Izod Impact, notched, 23°C 48 J/m ASTM D 256 THERMAL V STM D 648 C ASTM D 648 CTE, 40°C to 40°C, flow 4.6606 1/°C ASTM E 81 CTE, 40°C to 40°C, flow 4.3605 1/°C ASTM E 81 Relative Temp Index, Mech w/impact (1) 105 °C U.7468 Relative Temp Index, Mech w/o impact (1) 105 °C U.7468 Relative Temp Index, Mech w/o impact (1) 105 °C U.7468 Relative Temp Index, Mech w/o impact (1) 105 °C U.7468 Relative Temp Index, Mech w/o impact (1) 105 °C U.7468 Relative Temp Index, Mech w/o impact (1) 105 S C U.7468 C Relative Temp Index, Mech w/o impact (1) 10 20 C C MIN 708 Relative Temp Index, Mech w/o impact (1) 10 20 C MIN 709 MIN 709 MIN 709 MIN 709 MIN 709 MIN 709 MIN 7009	Flexural Modulus, 1.3 mm/min, 50 mm span	18140	MPa	ASTM D 790
Ize of Impact, notched, 23°C 48 J/m ASTM D 256 THERMAL CC ASTM D 648 CE ASTM D 648 CTE, 40°C to 40°C, flow 4.6E 06 1/°C ASTM E 81 CTE, 40°C to 40°C, flow 4.3E 05 1/°C ASTM E 81 Relative Temp Index, Mech w/impact (¹) 105 °C U.7468 Relative Temp Index, Mech w/o impact (¹) 139 J/cm³ ASTM D 792 WISSIAL 3 Most W 70 ASTM D 792 WISSIAL 3 Most W 70 ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 1.39 J/cm² ASTM D 792 Moid Shrinkage, flow, 24 hrs 0.1-0.2 3 ASTM D 792 Mold Shrinkage, flow, 24 hrs 0.1-0.2 4 ASTM D 57 Buller Exitivity 5 0.5-0.25 0mm ASTM D 257 Surface Resistivity 5 0.00 5 0mm ASTM D 257 Static Decay, 5000 to ~500 5 0.0 0mm MISTM D 257 Static Decay, 5000 to ~500 5 0.0	IMPACT			
### HDT, 1.82 MPa, 6.4 mm, unannealed 203 °C ASTM D 648 #### CTE, -40°Ct to 40°C, flow 46.00 1,°C ASTM E 831 #### CTE, -40°Ct to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°Ct to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 4.60 1,°C ASTM E 831 #### CTE, -40°C to 40°C, flow 45.00 1,°C A	Izod Impact, unnotched, 23°C	375	J/m	ASTM D 4812
HDT, 1.82 MPa, 6.4 mm, unannealed CTE, 40°C to 40°C, flow 4.60 60 4	Izod Impact, notched, 23°C	48	J/m	ASTM D 256
CTE, 40°C to 40°C, flow 4.6E.06 1/°C ASTM E 831 CTE, 40°C to 40°C, xflow 4.3E.05 1/°C ASTM E 831 Relative Temp Index, Mech w/impact (¹) 105 °C UL 7468 Relative Temp Index, Mech w/o impact (¹) 105 °C UL 7468 PHYSICAL Use Moisture Absorption, 50% RH, 24 hrs 1.39 g/cm² ASTM D 792 Mold Shrinkage, fllow, 24 hrs 0.1 − 0.2 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.1 − 0.2 % ASTM D 955 ELECTRICAL V V ASTM D 955 Use Gesistivity 5000 − 5000000 Ohm cm ASTM D 257 Static Decay, 5000't o <50V 5.E+03 − 5.E+05 Ohm ASTM D 257 Static Decay, 5000't to <50V 5.E+03 − 5.E+05 Ohm cm ASTM D 257 Static Decay, 5000't to <50V 50 FIMS1018 UL Yellow Card Link 50 7 1 UL Pedio, 50 6 C 1 Drying Ti	THERMAL			
CTE, 40°C to 40°C, xflow 4.3E-DS 1°C ASTM E 831 Relative Temp Index, Mech w/impact (¹) 105 °C UL 746B Relative Temp Index, Mech w/o impact (¹) 105 °C UL 746B PHYSICAL Usersity 1.39 g/cm³ ASTM D 792 Mold Shrinkage, flow, 24 hrs 0.2 % ASTM D 95 Mold Shrinkage, xflow, 24 hrs 0.1 − 0.2 % ASTM D 95 Mold Shrinkage, xflow, 24 hrs 0.2 − 0.2 % ASTM D 95 Mold Shrinkage, xflow, 24 hrs 5000 − 5000000 0hm-cm ASTM D 95 ELECTICAL Volume Resistivity 5000 − 5000000 0hm-cm ASTM D 257 Static Decay, 5000V to <50V 5E+03 − 5.E+05 0hm ASTM D 257 Static Decay, 5000V to <50V 5E E-07880-101260584 - - Ut Yellow Card Link 2 - - Ut Recognized, 94V-0 Flame Class Rating 150 - - Drying Time 4 − 6 - -	HDT, 1.82 MPa, 6.4 mm, unannealed	203	°C	ASTM D 648
Relative Temp Index, Mech w/impact (1) 105 °C U. 7468 Relative Temp Index, Mech w/o impact (1) 105 °C U. 7468 PHYSICAL Density 1.39 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.2 % ASTM D 95 Mold Shrinkage, flow, 24 hrs 0.1 – 0.2 % ASTM D 95 Mold Shrinkage, xflow, 24 hrs 0.15 – 0.25 % ASTM D 95 ELECTRICAL W ASTM D 257 Static Decay, 5000 (2000) Mm-cm ASTM D 257 Surface Resistivity 5000 – 5000000 Ohm -cm ASTM D 257 Static Decay, 5000V to <50V 0.1 2 seconds FIM51018 FLAME CHARACTERISTICS (1) TU Y L Uk Pelow Card Link E207780-101260584 - - Uk Recognized, 94V-0 Flame Class Rating E207780-101260584 - - Uk Recognized, 94V-0 Flame Class Rating 4-6 m C Drying Temperature 4-6 m - Drying Time (Cumu	CTE, -40°C to 40°C, flow	4.6E-06	1/°C	ASTM E 831
Relative Temp Index, Mech w/o impact (1) 105 °C U. 7468 PHYSICAL PHYSICAL Jana (2) Mark (2) ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.2 \$6 ASTM D 95 Mold Shrinkage, fflow, 24 hrs 0.1 – 0.2 \$6 ASTM D 95 Mold Shrinkage, xflow, 24 hrs 0.15 – 0.25 \$6 ASTM D 95 ELECTRICAL V ASTM D 257 \$1 Surface Resistivity 5000 – 5000000 Ohm — cm ASTM D 257 Static Decay, 5000V to <50V 5.E+03 – 5.E+05 Ohm — cm ASTM D 257 Static Decay, 5000V to <50V 10 4 ceconds TMS 018 FLAME CHARACTERISTICS (1) 2 FLOTY SOLITOR (2) TMS 018 Use Recognized, 94V-0 Flame Class Rating 0.4 mm U. 94 INJECTION MOLDING C C Drying Temperature 4 – 6 hrs Drying Time (Cumulative) 4 – 6 hrs Maximum Moisture Content 30 – 380 C Melt Temperature 30 – 380 C	CTE, -40°C to 40°C, xflow	4.3E-05	1/°C	ASTM E 831
PHYSICAL Density 1.39 g/cm³ ASTM D 792 Moisture Absorption, 50% RH, 24 hrs 0.2 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.1 − 0.2 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.15 − 0.25 % ASTM D 955 ELECTRICAL TUS W ASTM D 257 Surface Resistivity 5.6+03 − 5.6+05 Ohm -cm ASTM D 257 Static Decay, 5000V to <50V 0.1 < seconds	Relative Temp Index, Mech w/impact (1)	105	°C	UL 746B
Desity1.39g/cm³ASTM D 792Moisture Absorption, 50% RH, 24 hrs0.2%ASTM D 570Mold Shrinkage, flow, 24 hrs0.1 − 0.2%ASTM D 955Mold Shrinkage, xflow, 24 hrs0.15 − 0.25%ASTM D 955ELECTRICALVolume Resistivity5000 − 5000000Ohm-cmASTM D 257Surface Resistivity5.2+03 − 5.2+05OhmASTM D 257Static Decay, 5000V to <50V5.2+03 − 5.2+05OhmASTM D 257ELAMAC ECHARACTERISTICS ***2.207780-101260584UL Yellow Card Link2.207780-101260584UL Yellow Card Link5.0*-UNECTION MOLDING*Drying Temperature150**Drying Time4 − 6hrs-Drying Time (Cumulative)4.2+Maximum Moisture Content350 − 380**Melt Temperature350 − 380**Mozel Temperature345 − 380**	Relative Temp Index, Mech w/o impact $^{(1)}$	105	°C	UL 746B
Moisture Absorption, 50% RH, 24 hrs 0.2 % ASTM D 570 Mold Shrinkage, flow, 24 hrs 0.1 − 0.2 % ASTM D 955 Mold Shrinkage, xflow, 24 hrs 0.15 − 0.25 % ASTM D 955 ELECTRICAL V V Volume Resistivity 5000 − 5000000 Ohm-cm ASTM D 257 Staric Resistivity 5.E+03 − 5.E+05 Ohm ASTM D 257 Static Decay, 5000V to <50V 0.1 < seconds FIMS101B FLAME CHARACTERISTICS (**) T V V UL Recognized, 94V-0 Flame Class Rating 0.4 mm U.94 INIDECTION MOLDING ** C Drying Temperature 150 ** C Drying Time (Cumulative) 4 − 6 hrs Maximum Moisture Content 350 − 380 ** ** Melt Temperature 350 − 380 ** ** Mozel Temperature 345 − 380 ** **	PHYSICAL			
Mold Shrinkage, flow, 24 hrs 10.1 – 0.2 10.5 – 0.25 10	Density	1.39	g/cm³	ASTM D 792
Mold Shrinkage, xflow, 24 hrs LECCTRICAL Volume Resistivity Sou7 5000000 Sou7 50000000 Sou7 500000000 Sou7 50000000 Sou7 500000000 Sou7 50000000 Sou7 500000000 Sou7 50000000 Sou7 500000000 Sou7 50000000 Sou7 5000000 Sou7 5000000 Sou7 50000000 Sou7 5000000 Sou7 500000 Sou7 5000000 Sou7 500000 Sou7 50000 Sou7 500000 Sou7 50000	Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
ELECTRICAL Volume Resistivity 5000 – 50000000 Nohm-cm ASTM D 257 Strafe Resistivity 5.E+03 – 5.E+05 Nohm 4 seconds FIMS101B FI	Mold Shrinkage, flow, 24 hrs	0.1 – 0.2	%	ASTM D 955
Volume Resistivity5000 – 50000000Ohm-cmASTM D 257Surface Resistivity5.E+03 – 5.E+05OhmASTM D 257Static Decay, 5000V to <50V0.1< secondsFTMS101BFLAME CHARACTERISTICS (1)UL Yellow Card LinkE207780-101260584UL Recognized, 94V-0 Flame Class Rating0.4mmUL 94INJECTION MOLDINGDrying Temperature150°CDrying Time4 – 6hrsDrying Time (Cumulative)4 – 6hrsMaximum Moisture Content0.02%Melt Temperature350 – 380°CNozele Temperature345 – 380°C	Mold Shrinkage, xflow, 24 hrs	0.15 – 0.25	%	ASTM D 955
Surface Resistivity Static Decay, 5000V to <50V Static Dec	ELECTRICAL			
Static Decay, 5000V to <50V FLAME CHARACTERISTICS (1) UL Yellow Card Link LU Yellow Card Link LU Yellow Card Link LU Recognized, 94V-0 Flame Class Rating Drying Temperature Drying Temperature Drying Time A-6 A-6 Maximum Moisture Content Maximum Moisture Content Melt Temperature Nozel Temperature 350 – 380 C C C C C C C C C C C C C	Volume Resistivity	5000 – 5000000	Ohm-cm	ASTM D 257
FLAME CHARACTERISTICS (1) UL Yellow Card Link UL Recognized, 94V-0 Flame Class Rating Dying Temperature Drying Time (Cumulative) Maximum Moisture Content Mozel Temperature Doylor Samulative Mozel Temperature 350 – 380 C C C C C C C C C C C C C	Surface Resistivity	5.E+03 – 5.E+05	Ohm	ASTM D 257
UL Yellow Card Link UL Recognized, 94V-0 Flame Class Rating 0.4 INJECTION MOLDING Drying Temperature Drying Time (Cumulative) 150 24 Maximum Moisture Content 0.02 Melt Temperature 350 – 380 C C C C C C C C C C C C C C C C C C C	Static Decay, 5000V to <50V	0.1	< seconds	FTMS101B
UL Recognized, 94V-0 Flame Class Rating 0.4 mm UL 94 INJECTION MOLDING C C Drying Temperature 150 °C C Drying Time 4-6 hrs C Maximum Moisture Content 0.02 % L Melt Temperature 350 − 380 °C C Nozele Temperature 345 − 380 °C L	FLAME CHARACTERISTICS (1)			
INJECTION MOLDING Drying Temperature 150 °C Drying Time 4-6 hrs Drying Time (Cumulative) 24 hrs Maximum Moisture Content 0.02 % Melt Temperature 350-380 °C Nozele Temperature 345-380 °C	UL Yellow Card Link	E207780-101260584	-	
Drying Temperature 150 °C Drying Time 4 – 6 hrs Drying Time (Cumulative) 24 hrs Maximum Moisture Content 0.02 % Melt Temperature 350 – 380 °C Mozzle Temperature 345 – 380 °C	UL Recognized, 94V-0 Flame Class Rating	0.4	mm	UL 94
Drying Time 4 – 6 hrs Drying Time (Cumulative) 24 hrs Maximum Moisture Content 0.02 % Melt Temperature 350 – 380 °C Nozzle Temperature 345 – 380 °C	INJECTION MOLDING			
Drying Time (Cumulative) Maximum Moisture Content 0.02 Melt Temperature 350 – 380 °C Nozele Temperature 345 – 380 °C	Drying Temperature	150	°C	
Maximum Moisture Content 0.02 % Melt Temperature 350 – 380 °C Nozzle Temperature 345 – 380 °C	Drying Time	4 – 6	hrs	
Melt Temperature 350 – 380 °C Nozzle Temperature 345 – 380 °C	Drying Time (Cumulative)	24	hrs	
Nozzle Temperature 345 – 380 °C	Maximum Moisture Content	0.02	%	
·	Melt Temperature	350 – 380	°C	
Front - Zone 3 Temperature 345 − 380 °C	Nozzle Temperature	345 – 380	°C	
	Front - Zone 3 Temperature	345 – 380	°C	



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	340 – 380	°C	
Rear - Zone 1 Temperature	330 – 380	°C	
Mold Temperature	135 – 165	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

⁽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.

DISCLAIMER

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