

LNPTM STAT-KONTM COMPOUND DX07323

DESCRIPTION

LNP STAT-KON DX07323 compound is based on Polycarbonate (PC) resin containing stainless steel fiber. Added features of this grade include: Electrically Conductive, Impact Modified, meet ATEX requirements.

GENERAL INFORMATION	
Features	Electrically Conductive, Impact resistant
Fillers	Stainless Steel Fiber
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	55	MPa	ASTM D638
Tensile Stress, break	45	MPa	ASTM D638
Tensile Strain, yield	5	%	ASTM D638
Tensile Strain, break	9	%	ASTM D638
Tensile Modulus, 5 mm/min	2400	MPa	ASTM D638
Flexural Stress	84	MPa	ASTM D790
Flexural Modulus	2200	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	55	MPa	ISO 527
Tensile Stress, break, 5 mm/min	44	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5	%	ISO 527
Tensile Strain, break, 5 mm/min	9	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress, break, 2 mm/min	88	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT ⁽¹⁾			
Izod Impact, unnotched, 23°C	1600	J/m	ASTM D4812
Izod Impact, unnotched, -40°C	1500	J/m	ASTM D4812
Izod Impact, notched, 23°C	180	J/m	ASTM D256
Izod Impact, notched, -40°C	100	J/m	ASTM D256
Izod Impact, unnotched 80*10*4 +23°C	130	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	100	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	10	kJ/m²	ISO 180/1A

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CHEMISTRY THAT MATTERS



HOT.182 MP3.3.2mm, samealedJer Schwart Schwar	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CF. 40°C to 40°C, tilow54.051/°CASM 48.31CF. 40°C to 40°C, tilow52.051/°CKTM 28.31CF. 40°C to 40°C, flow52.051/°CKTM 28.31CF. 40°C to 40°C, flow52.051/°CKTM 28.31CF. 40°C to 40°C, flow124°CKTM 28.31BCH, AL & Ma Fatw 80°10' ap-64mm124°CU. 7480Relative Tem Index, Mech will program80°CU. 7480Relative Tem Index, Mech will program80°CU. 7480Relative Tem Index, Mech will program124StatusStatusMold Shrinkage, flow1.26StatusStatusMold Shrinkage, flow1.26StatusStatusMold Shrinkage, flow0.40-07StatusStatusMold Shrinkage, flow, 24 hrs0.40-07StatusStatusMold Shrinkage, flow, 24 hrs0.50-07StatusS	THERMAL ⁽¹⁾			
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CT. 40°Ct 40°C flow54.051/°C60 11359.2CT. 40°Ct 40°C tot 40	CTE, -40°C to 40°C, flow	5.E-05	1/°C	ASTM E831
FCF. 40°C to 40°C show56.051/°C50.1393-92HDT (A1. SMP a Fax & 10° 10° 4 spectrum1/210° 10°10° 10°Relative Temp index, Mech w/mapt ("80°C10° 10°Relative Temp index, Mech w/mapt ("80°C10° 10°Relative Temp index, Mech w/mapt ("80°C10° 10°Model Shrinkage, flow (")05090500Model Shrinkage, flow (")0.58080800 10°Model Shrinkage, flow (")0.580800800 10°Model Shrinkage, flow (")0.40.7800800 10°Model Shrinkage, flow (")0.40.7800800 10°Model Shrinkage, flow (")0.40.7800 10°800 10°Model Shrinkage, flow (")0.40.7800 10°800 10°Model Shrinkage, flow (")0.40.7800 10°800 10°Model Shrinkage, flow (")0.5900 10°800 10°800 10°Model Shrinkage, flow (")0.40.7800 10°800 10°Model Shrinkage, flow (")0.410°800 10°10°Model Shrinkage, flow (")0.610°10°10°Model Shrinkage, flow (")0.610° <th< td=""><td>CTE, -40°C to 40°C, xflow</td><td>5.E-05</td><td>1/°C</td><td>ASTM E831</td></th<>	CTE, -40°C to 40°C, xflow	5.E-05	1/°C	ASTM E831
HQT/M.1.8.MPa Flaku 80°10°4 spe364min124°C80.75/ARelative temp index, Betel ^{Pi} 80.0000°CU.7468Relative temp index, Metel y long part ^{Pin} 80.0000°CU.7468Relative temp index, Metel y long part Pin80.0000°CU.7468PristCAL ⁽¹⁾ °CU.7468PinPinPristCAL ⁽¹⁾ SSSSMold Shrinkage, flow ^{Pin} 0.5%CSSMold Shrinkage, flow ^{Pin} 0.4-0.7%CSSMold Shrinkage, flow 24 hs ⁽²⁾ 1.6-0.7%CSSMold Shrinkage, flow 24 hs ⁽²⁾ 1.6-0.7%C <td>CTE, -40°C to 40°C, flow</td> <td>5.E-05</td> <td>1/°C</td> <td>ISO 11359-2</td>	CTE, -40°C to 40°C, flow	5.E-05	1/°C	ISO 11359-2
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Mold shrinkage, rliou, "almSABC methodMold shrinkage, rliou, 24 hrs ⁽¹⁾ 0.4 - 0.7%ATM D955Mold shrinkage, rliou, 24 hrs ⁽¹⁾ 0.4 - 0.7%Mot D955Meth Rue, a00° (10 kgf)550.10 kgf)Mot D95Density1.26g/cm2S01133Dentore Rate, MVR at 300° (10.0 kgf)1.26 kgf)0.0 kgf)S01133ELCTRICA ⁽¹⁾ STM D257Volume Resistivity ⁽⁶⁾ 1.06 kgf)0.0 kgf)Mot D35FLACE CHARCERSTEC ⁽²⁾ Volume Resistivity ⁽⁶⁾ 2.0 kgf)0.0 kgf).Mot Charlenge Add Link2.0 kgf)FLACE CHARCERSTEC ⁽²⁾ Volume Resistivity ⁽⁶⁾ 2.0 kgf)Mult Charlenge Add Link2.0 kgf)Mult Charlenge Add Link2.0 kgf)Mult Charlenge Add LinkMult Charlenge Add Link<	Mold Shrinkage, flow (3)	0.5	%	SABIC method
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Density1.26g/cm³ISO 1183Met Volume Rate, MVR at 300°C/10.0 kg50cm²/10 minISO 1133ELECTRICAL ⁽¹⁾ So 1133Volume Resistivity ⁽⁴⁾ 1.0E+06 - 1.0E+09ΩASTM D257Surface Resistivity ⁽⁴⁾ .0.2cmASTM D257FLAME CHARACTERISTICS ⁽²⁾ U Yellow Card LinkE207780-101283809U Yellow Card LinkE207780-101283809U Yellow Card Link200780-101283809U Yellow Card Link200780-101283809U Yellow Card Link200780-101283809U Yellow Card Link200780-101283809U Yellow Card Link200780-101283809Dying Time Card Stating0.2Drying Time Card LinkDrying Time Card LinkMaximum Moisture ContentNozle Temperature290-310Nozle Temperature290-310Nozle Temperature200-300Mold TemperatureMold TemperatureMold TemperatureMold TemperatureMold TemperatureMold TemperatureMold TemperatureMold Temperature <td></td> <td>55</td> <td>g/10 min</td> <td>ASTM D1238</td>		55	g/10 min	ASTM D1238
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Volume Resistivitg.0.Ex806-1.0.Ev90.0.cmASTM D257Surface Resistivitg.0.Ev60.0.Ev90.0.G.STM D257FLAKE CHARCTERISTC (2)	Melt Volume Rate, MVR at 300°C/10.0 kg	50	- ,	ISO 1133
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EXARACCERISTICS ⁽²⁾ EXOTRON LOISC ⁽²⁾ C. <td></td> <td>1.0E+06 – 1.0E+09</td> <td>Ω</td> <td>ASTM D257</td>		1.0E+06 – 1.0E+09	Ω	ASTM D257
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Melt Temperature295-315°CNozzle Temperature290-310°CFront-Zone 3 Temperature295-315°CMiddle - Zone 2 Temperature280-305°CRear - Zone 1 Temperature70-295°CMold Temperature70-95°CBack Pressure0.3-0.7MPaStrew Speed40-70rpmShot to Cylinder Size40-60%				
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Front - Zone 3 Temperature295 - 315°CMiddle - Zone 2 Temperature280 - 305°CRear - Zone 1 Temperature270 - 295°CMold Temperature70 - 95°CBack Pressure0.3 - 0.7MPaScrew Speed40 - 70rpmShot to Cylinder Size40 - 60%				
Middle - Zone 2 Temperature 280 – 305 °C Rear - Zone 1 Temperature 270 – 295 °C Mold Temperature 70 – 95 °C Back Pressure 0.3 – 0.7 MPa Screw Speed 40 – 70 rpm Shot to Cylinder Size 40 – 60 %				
Rear - Zone 1 Temperature 270 – 295 °C Mold Temperature 70 – 95 °C Back Pressure 0.3 – 0.7 MPa Screw Speed 40 – 70 rpm Shot to Cylinder Size 40 – 60 %				
Mold Temperature 70 - 95 °C Back Pressure 0.3 - 0.7 MPa Screw Speed 40 - 70 rpm Shot to Cylinder Size 40 - 60 %				
Back Pressure 0.3 - 0.7 MPa Screw Speed 40 - 70 rpm Shot to Cylinder Size 40 - 60 %				
Screw Speed 40 – 70 rpm Shot to Cylinder Size 40 – 60 %	· · ·			
Shot to Cylinder Size 40 – 60 %				
	Vent Depth	0.025 - 0.076	mm	



- (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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