# LNP™ STAT-KON™ COMPOUND EX01407C

PDX-E-01407 CCS

## DESCRIPTION

LNP* STAT-KON* EX01407C is a compound based on PEI resin containing proprietary fillers. Added feature of this grade is: Clean Compounding System.

## TYPICAL PROPERTY VALUES

Revision 20191212

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, brk, Type I, 5 mm/min | 88 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 2 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 11220 | MPa | ASTM D 638 |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 140 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 8950 | MPa | ASTM D 790 |
| Tensile Stress, break, 5 mm/min | 89 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 2 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 10320 | MPa | ISO 527 |
| Flexural Stress | 147 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 9640 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 273 | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 58 | J/m | ASTM D 256 |
| Multiaxial Impact | 3 | J | ISO 6603 |
| Instrumented Impact Total Energy, 23°C | 15 | J | ASTM D 3763 |
| Izod Impact, unnotched 80*10*4 +23°C | 16 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 5 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 214 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 209 | °C | ASTM D 648 |
| CTE, -30°C to 30°C, flow | 1.4E-05 | 1/°C | ASTM D 696 |
| CTE, -30°C to 30°C, xflow | 3.8E-05 | 1/°C | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 216 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 209 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Specific Gravity | 1.4 | - | ASTM D 792 |
| Density | 1.399 | g/cm³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.13 | % | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs | 0.55 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 0.77 | % | ASTM D 955 |
| Moisture Absorption (23°C / 50% RH) | 0.2 | % | ISO 62 |
| ELECTRICAL | | | |
| Surface Resistivity | 1.E+02 – 1.E+06 | Ohm | ASTM D 257 |
| INJECTION MOLDING | | | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 – 6 | hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 360 – 365 | °C | |
| Front - Zone 3 Temperature | 365 – 375 | °C | |
| Middle - Zone 2 Temperature | 355 – 365 | °C | |
| Rear - Zone 1 Temperature | 345 – 355 | °C | |
| Mold Temperature | 120 – 150 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 60 – 100 | rpm | |

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