

LNP* Stat-kon* Compound DE003M

Americas: COMMERCIAL

LNP* Stat-Kon* DE003M is a compound based on polycarbonate and carbon fiber. Characteristics of this grade include Milled Carbon Fiber.

Property

| TYPICAL PROPERTIES ⁽¹⁾ | | | |
|----------------------------------------------|-----------|-------------------|-------------|
| MECHANICAL | Value | Unit | Standard |
| Tensile Stress, yld, Type I, 5 mm/min | 101 | MPa | ASTM D 638 |
| Tensile Stress, brk, Type I, 5 mm/min | 101 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 5 mm/min | 2.8 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 2.9 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 8470 | MPa | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 175 | MPa | ASTM D 790 |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 175 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 9790 | MPa | ASTM D 790 |
| Tensile Stress, yield, 5 mm/min | 100 | MPa | ISO 527 |
| Tensile Stress, break, 5 mm/min | 100 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 2.7 | % | ISO 527 |
| Tensile Strain, break, 5 mm/min | 2.8 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 8040 | MPa | ISO 527 |
| Flexural Stress | 162 | MPa | ISO 178 |
| Flexural Strain, break, 2 mm/min | - | % | ISO 178 |
| Flexural Modulus, 2 mm/min | 6840 | MPa | ISO 178 |
| IMPACT | Value | Unit | Standard |
| Izod Impact, unnotched, 23°C | 619 | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 73 | J/m | ASTM D 256 |
| Multiaxial Impact | 4 | J | ISO 6603 |
| Instrumented Impact Total Energy, 23°C | 17 | J | ASTM D 3763 |
| Izod Impact, unnotched 80*10*4 +23°C | 38 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 6 | kJ/m ² | ISO 180/1A |
| THERMAL | Value | Unit | Standard |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 148 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 144 | °C | ASTM D 648 |
| CTE, -30°C to 30°C, flow | 2.E-06 | 1/°C | ASTM D 696 |
| CTE, -30°C to 30°C, xflow | 7.E-07 | 1/°C | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 148 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 144 | °C | ISO 75/Af |
| PHYSICAL | Value | Unit | Standard |
| Specific Gravity | 1.25 | - | ASTM D 792 |
| Density | - | g/cm ³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.13 | % | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs | 0.1 - 0.3 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 0.4 - 0.6 | % | ASTM D 955 |
| Density | - | g/cm ³ | ISO 1183 |
| Moisture Absorption (23°C / 50% RH) | 0.21 | % | ISO 62 |

| ELECTRICAL | Value | Unit | Standard |
|---------------------|-----------------|------|------------|
| Surface Resistivity | 3.E+00 - 5.E+00 | Ohm | ASTM D 257 |

Source GMD, last updated:05/05/2008

Processing

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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