

Technical Data Sheet

Sustanat[®] PC - ASTM

Typical characteristics

- Good dimensional stability
- Low moisture absorption
- High stiffness

Typical industries

- Электротехническая промышленность
- Машиностроение

| | Test method | Unit | Guideline value |
|---|-------------|----------------------------|-----------------|
| General properties | | | |
| Density | ASTM D792 | g / cm ³ | 1.2 |
| Water Absorption 24 hours | ASTM D570 | % | 0.15 |
| Dissipation Factor | ASTM D150 | 1MHz | 0.006 |
| Water Absorption Saturation | ASTM D570 | % | 0.35 |
| Mechanical properties | | | |
| Hardness | ASTM D2240 | Shore D | 80 |
| Tensile Strength at yield 73°F | ASTM D638 | psi | 10000 |
| Tensile Modulus | ASTM D638 | psi | 320000 |
| Elongation at Break | ASTM D638 | % | 75 |
| Flexural Strength | ASTM D790 | psi | 13000 |
| Flexural Modulus | ASTM D790 | psi | 340000 |
| Compressive Strength | ASTM D695 | psi | 11500 |
| Rockwell Hardness | ASTM D785 | | 75 |
| Rockwell Hardness | ASTM D785 | R | 126 |
| Shear Strength | ASTM D732 | psi | 9000 |
| Izod Impact, Notched | ASTM D256 | ft-lb/in | 10 |
| Coefficient of Friction, Dynamic | | | 0.38 |
| Thermal properties | | | |
| Thermal Conductivity | | in/hr/ft ² /°F | 1.3 |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F x10 ⁻⁵ | 3.8 |
| Melting Point | ASTM D789 | °F | 310 |

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

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| | Test method | Unit | Guideline value |
|---|-------------|----------|-------------------|
| Continuous Service Temperature, Air | | °F | 250 |
| Deflection Temperature at 1.8Mpa (264psi) | ASTM D648 | °F | 280 |
| Deflection Temperature at 1.8Mpa (66psi) | ASTM D648 | °F | 295 |
| Flammability, UL94 | | 1/8 inch | HB |
| Electrical properties | | | |
| Dielectric constant | ASTM D150 | 1MHz | 3.2 |
| Dielectric strength | ASTM D149 | V/mil | 380 |
| Surface resistivity | ASTM D257 | Ω/cm | >10 ¹³ |
| Compliance properties | | | |
| FDA | | | No |
| NSF | | | No |
| USDA | | | No |

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

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