



Technical data sheet SUSTARIN® 13% AF (Delrin AF Blend)

| | ASTM Test method | Unit | Value |
|---|------------------|---------------------------|----------------------|
| Physical Properties | | | |
| Specific Gravity | D792 | g/cm ³ | 1.50 |
| Water Absorption 24 hours | D570 | % | 0.2 |
| Water Absorption Saturation | D570 | % | 0.8 |
| Dissipation Factor | D150 | 1 MHz | 0.009 |
| Mechanical Properties | | | |
| Hardness | D785 | Shore D | D85 |
| Rockwell Hardness | D785 | M | M85 |
| Rockwell Hardness | D785 | R | R115 |
| Tensile Strength at yield 73 °F | D638 | psi | 8,000 |
| Tensile Modulus | D638 | psi | 410,000 |
| Elongation at Break | D638 | % | 20 |
| Flexural Strength | D790 | psi | 12,500 |
| Flexural Modulus | D790 | psi | 450,000 |
| Compressive Strength | D695 | psi | 15,000 |
| Shear Strength | D732 | psi | - |
| Izod Impact, Notched | D256 | ft-lb/in | 0.7 |
| Coefficient of Friction, Dynamic | - | - | - |
| Thermal properties | | | |
| CTE, linear | D696 | in/in/°F | 5.1x10 ⁻⁵ |
| Melting Point | D3418 | °F | 347 |
| Continuous Use | - | °F | 185 |
| Thermal Conductivity | - | in/hr/ft ² /F° | 2 |
| Deflection Temperature at 1.8Mpa (66psi) | D648 | °F | 334 |
| Deflection Temperature at 1.8Mpa (264psi) | D648 | °F | 248 |
| Flammability, UL94 | - | 1/8 inch | HB |
| Electrical properties | | | |
| Dielectric constant | D150 | - | 3.7 |
| Surface resistivity | D257 | Ohm/cm | 10 ¹⁶ |
| Dielectric strength | D149 | V/mil | 450 |
| Compliance Properties | | | |
| FDA | - | - | 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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