



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

|   | ASTM Test method | Unit                     | Value                |
|---|------------------|--------------------------|----------------------|
| <b>Physical Properties</b>                |                  |                          |                      |
| Specific Gravity                          | D792             | g/cm <sup>3</sup>        | 1.50                 |
| Water Absorption 24 hours                 | D570             | % % 1                    | 0.2                  |
| Water Absorption Saturation               | D570             | MHz                      | 0.8                  |
| Dissipation Factor                        | D150             |                          | 0.009                |
| <b>Mechanical Properties</b>              |                  |                          |                      |
| 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          | -                | -                        | -                    |
| <b>Thermal properties</b>                 |                  |                          |                      |
| CTE, linear                               | D696             | in/in/°F °F              | 5.1x10 <sup>-5</sup> |
| Melting Point                             | D3418            | °F                       | 347 185              |
| Continuous Use                            | -                | in/hr/ft <sup>2</sup> /F | 2 334                |
| Thermal Conductivity                      | -                | ° °F °F                  | 248                  |
| Deflection Temperature at 1.8Mpa (66psi)  | D648             | 1/8inch                  | HB                   |
| Deflection Temperature at 1.8Mpa (264psi) | D648             |                          |                      |
| Flammability, UL94                        | -                |                          |                      |
| <b>Electrical properties</b>              |                  |                          |                      |
| Dielectric constant                       | D150             | -                        | 3.7                  |
| Surface resistivity                       | D257             | Ohm/cm                   | 1016                 |
| Dielectric strength                       | D149             | V/mil                    | 450                  |
| <b>Compliance Properties</b>              |                  |                          |                      |
| 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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