

Technical data sheet

SUSTARIN® C (Acetal Copolymer)

Product characteristics

- Good chemical resistance
- Low moisture absorption
- Ideal combination of tensile strength, stiffness & impact strength

Typical field of application

- Mechanical & electrical engineering
- Automotive
- Textile & food processing industries

| Physical Properties | tested method | unit | value |
|-------------------------------------------|---------------|---------------------------|----------------------|
| Specific Gravity | D792 | g/cm ³ | 1.41 |
| Water Absorption 24 hours | D570 | % | 0.2 |
| Water Absorption Saturation | D570 | % | 0.9 |
| Dissipation Factor | D150 | 1 MHz | 0.004 |
| Mechanical Properties | tested method | unit | value |
| Hardness | D785 | Shore D | D85 |
| Rockwell Hardness | D785 | M | M88 |
| Rockwell Hardness | D785 | R | R120 |
| Tensile Strength | D638 | psi | 9,500 |
| Tensile Modulus | D638 | psi | 400,000 |
| Elongation at Break | D638 | % | 40 |
| Flexural Strength | D790 | psi | 12,000 |
| Flexural Modulus | D790 | psi | 400,000 |
| Compressive Strength | D695 | psi | 15,000 |
| Shear Strength | D732 | psi | 8,000 |
| Izod Impact, Notched | D256 | ft-lb/in | 1.2 |
| Coefficient of Friction, Dynamic | - | - | 0.21 |
| Thermal Properties | tested method | unit | value |
| CTE, linear | D696 | in/in/°F | 5.5x10 ⁻⁵ |
| Melting Point | D3418 | °F | 330 |
| Continuous Use | - | °F | 180 |
| Thermal Conductivity | - | in/hr/ft ² /F° | 1.6 |
| Deflection Temperature at 1.8Mpa (66psi) | D648 | °F | 320 |
| Deflection Temperature at 1.8Mpa (264psi) | D648 | °F | 225 |
| Flammability, UL94 | - | 1/8 inch | HB |
| Electrical Properties | tested method | unit | value |
| Dielectric constant | D150 | - | 3.8 |
| Surface resistivity | D257 | Ohm/cm | 10 ¹⁶ |
| Dielectric strength | D149 | V/mil | 450 |
| Compliance Properties | tested method | unit | value |
| FDA | - | - | Yes |
| NSF | - | - | Yes* |
| USDA | - | - | Yes |

*NOTE: Sustarin® C Natural is NSF listed, standard 51, black and colors are not NSF listed.

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. The data above was correct when published. Please refer to the Röchling Plastics website for current data and product specifications.