

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.