

## Technical data sheet

### SUSTARIN® C MG (Medical Grade Acetal Copolymer)

#### Product characteristics

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

#### Typical field of application

- Medical engineering

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	1.41
Water Absorption 24 hours	D570	%	0.2
Water Absorption Saturation	D570	%	0.9
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D85
Rockwell Hardness	D785	M	M88
Rockwell Hardness	D785	R	R120
Tensile Strength at yield 73 °F	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
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 <sup>-5</sup>
Melting Point	D3418	°F	330
Continuous Use	-	°F	180
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /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
Surface resistivity	D257	Ohm/cm	10 <sup>16</sup>
Compliance Properties	tested method	unit	value
FDA	-	-	Yes

Colors: Natural, Blue, Red, Yellow, Green & Brown – other colors available by request

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.