

Technical Data Sheet

Sustarin[®] C MG - ASTM

Typical characteristics

- Good combination of rigidity, stiffness and toughness
- Multi-sterilisable with hot steam, plasma as well as ethylene oxide
- Low moisture absorption
- Very good hydrolysis resistance
- High abrasion resistance
- Low creep tendency
- very good visual appearance
- Good dimensional stability
- ISO 10993 tested on semi-finished product
- Good sliding properties

Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation
- Electronics
- Vehicle Construction
- Healthcare
- Food Industry
- Bakery and Confectionery
- Oil and Gas

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.41
Water Absorption	ASTM D570	%	0.9
Water Absorption 24 hours	ASTM D570	%	0.2
Mechanical properties			
Hardness	ASTM D2240	Shore D	85
Tensile Strength at yield 73°F	ASTM D638	psi	9500
Tensile Modulus	ASTM D638	psi	400000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	12000
Flexural Modulus	ASTM D790	psi	400000
Rockwell Hardness	ASTM D785		88
Rockwell Hardness	ASTM D785	R	120

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	Test method	Unit	Guideline value
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic			0.21
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.6
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	5.5
Melting Point		°F	330
Continuous Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	225
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	320
Flammability, UL94		1/8 inch	HB
Electrical properties			
Surface resistivity	ASTM D257	Ohm/cm	10 ¹⁶
Compliance properties			
FDA			Yes

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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