

## Technical Data Sheet

# Sustarin<sup>®</sup> C - ASTM

POM-C

### Typical characteristics

- Chemical resistant
- Good dimensional stability
- Low moisture absorption
- Good sliding properties

### Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation
- Food Industry
- Oil and Gas

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.41
Water Absorption 24 hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.004
Water Absorption Saturation	ASTM D570	%	0.9
<b>Mechanical properties</b>			
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
Compressive Strength	ASTM D695	psi	15000
Rockwell Hardness	ASTM D785		88
Rockwell Hardness	ASTM D785	R	120
Shear Strength	ASTM D732	psi	8000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic			0.21
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.6
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	5.5

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	Test method	Unit	Guideline value
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
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.8
Dielectric strength	ASTM D149	V/mil	450
Surface resistivity	ASTM D257	Ω/cm	10 <sup>16</sup>
<b>Compliance properties</b>			
FDA			Yes
NSF			No
USDA			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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