

Technical Data Sheet

Sustarin[®] C - ASTM

Typical characteristics

- Chemical resistance
- Low moisture absorption
- High abrasion resistance
- ideal combination of tensile strength, stiffness and impact strength
- Low creep tendency
- Good machinability
- favourable electric and dielectric behaviour
- Good dimensional stability
- 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 24 hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.004
Water Absorption Saturation	ASTM D570	%	0.9
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
Compressive Strength	ASTM D695	psi	15000
Rockwell Hardness	ASTM D785		88
Rockwell Hardness	ASTM D785	R	120
Shear Strength	ASTM D732	psi	8000

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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			
Dielectric constant	ASTM D150	1MHz	3.8
Dielectric strength	ASTM D149	V/mil	450
Surface resistivity	ASTM D257	Ohm/cm	10 ¹⁶
Compliance properties			
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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