

Technical Data Sheet

Sustarin® C ESD 60 - ASTM

Typical characteristics

- Electrically conductive
- Good resistance against many solvents
- Low moisture absorption
- ideal combination of tensile strength, stiffness and impact strength
- Low creep tendency
- Good dimensional stability
- Good UV resistance

Typical industries

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

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.44
Water Absorption	ASTM D570	%	1.0-2.0
Water Absorption 24 hours	ASTM D570	%	0.5
Dissipation Factor	ASTM D150	1MHz	0.005
Mechanical properties			
Hardness	ASTM D2240	Shore D	86
Tensile Strength at yield 73°F	ASTM D638	psi	11400
Tensile Modulus	ASTM D638	psi	425000
Elongation at Break	ASTM D638	%	5
Flexural Strength	ASTM D790	psi	16000
Flexural Modulus	ASTM D790	psi	1050000
Compressive Strength	ASTM D695	psi	15000
Rockwell Hardness	ASTM D785		86
Rockwell Hardness	ASTM D785	R	120
Shear Strength	ASTM D732	psi	8000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.0

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Print: 31/07/2023 • Draft: 02/03/2023

PIM-Version: 26 • PIM-ID: 717930 • PIM-Code: 26-14-11.9.10.16.10.149.110-3.8.5.3.7.3.3.3.5-2



	Test method	Unit	Guideline value
Coefficient of Friction, Dynamic			0.2
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.7
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	4,4
Melting Point		°F	330
Continuous Service Temperature, Air		°F	200
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	300
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.7
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ohm/cm	10 ⁴
Compliance properties			
FDA			No
NSF			No
USDA			No

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.