

Technical Data Sheet

Sustarin® C ESD 90 - ASTM

Typical characteristics

- Antistatic
- No carbon black
- Low moisture absorption
- good combination of mechanical strength, stiffness and impact strength
- Low creep tendency
- Good sliding properties

Typical industries

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

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.33
Water Absorption 24 hours	ASTM D570	%	1.0
Dissipation Factor	ASTM D150	1MHz	0.005
Water Absorption Saturation	ASTM D570	%	2.0
Mechanical properties			
Hardness	ASTM D2240	Shore D	86
Tensile Strength at yield 73°F	ASTM D638	psi	11000
Tensile Modulus	ASTM D638	psi	425000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	18000
Flexural Modulus	ASTM D790	psi	450000
Compressive Strength	ASTM D695	psi	8,000
Rockwell Hardness	ASTM D785		86
Rockwell Hardness	ASTM D785	R	120
Shear Strength	ASTM D732	psi	6,000

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
rep@roechling-plastics.us • www.roechling.com/industrial/rep-us

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Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Izod Impact, Notched	ASTM D256	ft-lb/in	1.0-1.8
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	4.8
Melting Point		°F	330
Continuous Service Temperature, Air		°F	180
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	250
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 ^{9-10¹¹}
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.