

Technical data sheet

SUSTARIN® C ESD 90 (Acetal Copolymer) Static Dissipative

Product characteristics

- Antistatic; does not contain Carbon black
- Good sliding properties
- Low creep tendency

Typical field of application

- Clean room and semiconductor
- Explosion protection
- Packaging and electrical industries

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.33
Water Absorption 24 hours	D570	%	1.0
Water Absorption Saturation	D570	%	2.0
Dissipation Factor	D150	1 MHz	0.005
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D86
Rockwell Hardness	D785	M	M86
Rockwell Hardness	D785	R	R120
Tensile Strength at yield 73 °F	D638	psi	11,000
Tensile Modulus	D638	psi	425,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	18,000
Flexural Modulus	D790	psi	450,000
Compressive Strength	D695	psi	8,000
Shear Strength	D732	psi	6,000
Izod Impact, Notched	D256	ft-lb/in	1.0-1.8
Coefficient of Friction, Dynamic	-	-	0.2
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	4.8x10 ⁻⁵
Melting Point	D3418	°F	330
Continuous Use	-	°F	180
Thermal Conductivity	-	in/hr/ft ² /F°	1.7
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	-
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	250
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.7
Surface resistivity	D257	Ohm/cm	10 ⁹ -10 ¹¹
Dielectric strength	D149	V/mil	400
Compliance Properties	tested method	unit	value
FDA	-	-	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.