

# Technical data sheet

## SUSTARIN® H (Acetal Homopolymer – Delrin®)

### Product characteristics

- Good dimensional stability
- Low moisture absorption & good wear resistance
- High mechanical strength, stiffness & toughness

### Typical field of application

- Mechanical engineering
- Precision mechanics
- Automotive and chemical industries

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	1.42
Water Absorption 24 hours	D570	%	0.2
Water Absorption Saturation	D570	%	0.7
Dissipation Factor	D150	1 MHz	-
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D83
Rockwell Hardness	D785	M	M94
Rockwell Hardness	D785	R	R122
Tensile Strength	D638	psi	10,500
Tensile Modulus	D638	psi	420,000
Elongation at Break	D638	%	40
Flexural Strength	D790	psi	12,000
Flexural Modulus	D790	psi	400,000
Compressive Strength	D695	psi	16,000
Shear Strength	D732	psi	9000
Izod Impact, Notched	D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic	-	-	0.12
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	6.7x10 <sup>-5</sup>
Melting Point	D3418	°F	347
Continuous Use	-	°F	185
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /F°	2.0
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	290
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	242
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.1
Surface resistivity	D257	Ohm/cm	10 <sup>16</sup>
Dielectric strength	D149	V/mil	400
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
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.