

ADVANCED INDUSTRIAL

HIGH PERFORMANCE PLASTIC SHAPES // PRECISION CNC MACHINED COMPONENTS



Technical Data Sheet

Sustarin[®] H (Delrin[®]) AF - DE588 - ASTM

Typical characteristics

- Good wear properties
- Good dimensional stability
- Good sliding properties

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry
- Electronics

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.54
Water Absorption	ASTM D570	%	0.8
Water Absorption 24 hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.009
Mechanical properties			
Tensile Strength at Yield	ASTM D638	psi	6630
Hardness	ASTM D2240	Shore D	76
Tensile Modulus	ASTM D638	psi	540000
Tensile Elongation	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	12500
Flexural Modulus	ASTM D790	psi	405000
Compressive Strength	ASTM D695	psi	12600
Rockwell Hardness	ASTM D785		50
Rockwell Hardness	ASTM D785	R	110
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	2.0
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	4.4
Melting Point	ASTM D789	°F	350
Continuous Service Temperature, Air		°F	185
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	244
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	334
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.1
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ω/cm	10 ¹⁶
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.