

Technical Data Sheet

Sustarin[®] H (Delrin[®]) natural - ASTM

POM-H

Typical characteristics

- Good dimensional stability
- Low moisture absorption
- Good wear resistance
- High mechanical strength
- High stiffness
- Good toughness
- High creep resistant
- Good machinability

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry
- Electronics

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.42
Water Absorption	ASTM D570	%	0.7
Water Absorption 24 hours	ASTM D570	%	0.2
Mechanical properties			
Tensile Strength at yield 73°F	ASTM D638	psi	10500
Tensile Modulus	ASTM D638	psi	420000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	12000
Flexural Modulus	ASTM D790	psi	400000
Compressive Strength	ASTM D695	psi	16000
Rockwell Hardness	ASTM D785		94
Rockwell Hardness	ASTM D785	R	122
Shear Strength	ASTM D732	psi	9000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic			0.12
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	2.0
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	6.7

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	Test method	Unit	Guideline value
Melting Point		°F	347
Continuous Service Temperature, Air		°F	185
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	242
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	290
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			Yes
NSF			No
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.

