MODERN plastics
Setting the Standards

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74-Years in Business in 2019 | ISO 9001:2015 & ISO 13485:2016 Certified

Technical data sheet

SUSTARIN® H AF (Acetal - Delrin® AF Blend)

Product characteristics

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

Typical field of application

- Mechanical engineering
- Chemical industry
- Automotive industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm^3	1.50
Water Absorption 24 hours	D570	%	0.2
Water Absorption Saturation	D570	%	0.8
Dissipation Factor	D150	1 MHz	0.009
Mechanical Properties	**tested method**	**unit**	**value**
Hardness	D785	Shore D	D85
Rockwell Hardness	D785	M	M85
Rockwell Hardness	D785	R	R115
Tensile Strength	D638	psi	8,000
Tensile Modulus	D638	psi	410,000
Elongation at Break	D638	%	20
Flexural Strength	D790	psi	12,500
Flexural Modulus	D790	psi	450,000
Compressive Strength	D695	psi	15,000
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	0.7
Coefficient of Friction, Dynamic	-	-	-
Thermal Properties	**tested method**	**unit**	**value**
CTE, linear	D696	in/in/°F	5.1x10^{-5}
Melting Point	D3418	°F	347
Continuous Use	-	°F	185
Thermal Conductivity	-	in/hr/ft2/F°	2
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	334
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	248
Flammability, UL94	-	⅛ inch	HB
Electrical Properties	**tested method**	**unit**	**value**
Dielectric constant	D150	-	3.7
Surface resistivity	D257	Ohm/cm	10^{16}
Dielectric strength	D149	V/mil	450
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.