

RÖCHLING datasheet

Sustarin | 2009

SUSTARIN® H AF (Delrin® AF)

SUSTARIN H AF Blend (Delrin AF Blend) is a special formulation of Delrin blended with 13% Teflon fibers added for enhanced wear characteristics and a lower coefficient of friction. Sustarin H AF Blend retains approximately 90% of the strength and rigidity of Delrin but with improved bearing and sliding properties. SUSTARIN H 100 AF (Delrin 100 AF) contains 20% Teflon fibers and provides even lower frictional properties. SUSTARIN H AF-DE588 is fully tested and certified to meet U.S. Navy specifications for use in seals, gaskets and valve seats. SUSTARIN TF 13 is offered as a lower cost alternative to Delrin AF Blend and achieves similar physical properties.

Product Features:

- ⇒ Continuous use temperature of 185° F
- ⇒ Low coefficient of friction
- ⇒ Improved wear properties versus Delrin
- ⇒ Excellent strength and toughness
- ⇒ Natural color is dark brown
- ⇒ Excellent sliding properties
- ⇒ Excellent insulator
- ⇒ Very easy to machine

Typical Properties of Stock Shapes

Property	Units	Test Method	H AF Blend	H AF DE588
Specific Gravity	-	ASTM D 792	1.5	1.54
Water Absorption 24 hrs	%	ASTM D 570	0.2	0.2
Water Absorption Saturation	%	ASTM D 570	0.8	0.8
Flammability	-	UL 94	HB	HB
Tensile Strength	psi	ASTM D 638	8,000	6,630
Elongation	%	ASTM D 638	20	30
Modulus	psi	ASTM D 638	410,000	540,000
Flexural Strength	psi	ASTM D 790	12,500	12,500
Modulus	psi	ASTM D 790	450,000	405,000
Notched Izod	ft-lb/in	ASTM D 256	0.7	-
Rockwell Hardness	-	ASTM D 785	R115	R110
HDT @ 264 psi	°F	ASTM D 648	248	244
Coefficient Linear thermal expansion	in/in/oF	ASTM D 696	5.1 x 10 ⁻⁵	4.4 x 10 ⁻⁵
Dielectric Strength	V / mil	ASTM D 149	450	400
Volume Resistivity	ohm-cm	ASTM D 257	10 ¹⁶	10 ¹⁶
Dielectric Constant	-	ASTM D 150	3.7	3.1

Typical Applications

- ⇒ Bearing components
- ⇒ Bushings
- ⇒ Housings
- ⇒ Insulators
- ⇒ Valve seats
- ⇒ Seals and gaskets
- ⇒ Gears
- ⇒ Low friction parts

Certifications

- ⇒ ASTM D 4181, 6778 and 6100 (shapes)
- ⇒ DE588 meets NAVSEA 5959311 Rev. C, NAVSEA 803-4384678 Rev. B & C



Advanced Industrial
 1-800-265-7351
www.cncplastics.com