

RÖCHLING datasheet

Sustarin | 2009

SUSTARIN® H(Delrin®)

SUSTARIN® H is a homopolymer acetal manufactured from Delrin® resin. This product offers slightly higher tensile and impact strength in comparison to copolymer acetal. SUSTARIN® H is used in wide variety of industrial applications as parts and components due to its excellent dimensional stability and high fatigue endurance. "Centerline porosity" is an inherent property of this product.

Product Features:

- ⇒ Continuous use temperature of 185° F
- ⇒ Excellent dimensional stability
- ⇒ High strength and stiffness
- ⇒ Low moisture absorption
- ⇒ Excellent creep resistance
- ⇒ Good sliding properties
- ⇒ Outstanding electrical properties
- ⇒ Available in special grades: such as glass-filled and UV.

Typical Properties of Stock Shapes

Property	Units	Test Method	Value H
Specific Gravity	-	ASTM D 792	1.42
Water Absorption 24 hrs	%	ASTM D 570	0.2
Water Absorption Saturation	%	ASTM D 570	0.7
Flammability	-	UL 94	HB
Tensile Strength	psi	ASTM D 638	10,500
Elongation	%	ASTM D 638	40
Modulus	psi	ASTM D 638	420,000
Flexural Strength	psi	ASTM D 790	12,000
Modulus	psi	ASTM D 790	400,000
Notched Izod	ft-lb/in	ASTM D 256	1.2
Rockwell Hardness	-	ASTM D 785	M89
HDT @ 264 psi	°F	ASTM D 648	242
Coefficient Linear thermal expansion	in/in/oF	ASTM D 696	6.7 x 10 ⁻⁵
Dielectric Strength	V / mil	ASTM D 149	400
Volume Resistivity	ohm-cm	ASTM D 257	10 ¹⁶
Dielectric Constant	-	ASTM D 150	3.1

Typical Applications

- ⇒ Bushings and bearings
- ⇒ Pump parts
- ⇒ Electrical insulator components
- ⇒ Manifolds
- ⇒ Gears
- ⇒ Valves

Certifications

- ⇒ ASTM D6100-05 POM 0111 (Shapes)
- ⇒ ASTM 4181-88 POM 111 (Resin)
- ⇒ Natural meets FDA21 CFR 177.2470



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