

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

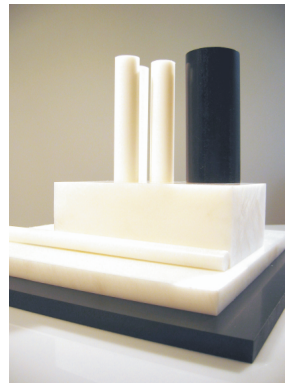
| Property | Units | Test Method | Value H |
|--------------------------------------|----------|-------------|------------------------|
| Specific Gravity | - | ASTM D 792 | 1.42 |
| Water Absorption 24 hrs | % | ASTM D 570 | 0.2 |
| Water Absorption Saturation | % | ASTM D 570 | 0.7 |
| Flammability | - | 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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