

# RÖCHLING datasheet

SUSTARIN | 2009

## SUSTARIN® C (Acetal)

SUSTARIN® C (Acetal) is a general-purpose copolymer acetal that is porosity free. The technology used in our manufacturing process ensures that every sheet and rod is free of centerline or core porosity. SUSTARIN® C is easily machined with excellent dimensional stability for close tolerance parts. A low coefficient of friction and excellent wear properties, especially in wet or moist environments, make it easy to see why SUSTARIN® C is one of the most widely used engineering thermoplastics available today.

### Product Features:

- ⇒ Excellent dimensional stability
- ⇒ Porosity free
- ⇒ Very low moisture absorption
- ⇒ Easy to machine to close tolerances
- ⇒ Continuous use temperature of 180°F
- ⇒ Consistent properties in wet or moist environments
- ⇒ Excellent electrical properties
- ⇒ Natural and Black are FDA, USDA, NSF and 3-A Dairy compliant

### Typical Properties of Stock Shapes

Property	Units	Test Method	Value Natural & Black
Specific Gravity	-	ASTM D 792	1.41
Water Absorption 24 hrs	%	ASTM D 570	0.2
Water Absorption Saturation	%	ASTM D 570	0.9
Flammability	-	UL 94	HB
Tensile Strength	psi	ASTM D 638	9,500
Elongation	%	ASTM D 638	40
Modulus	psi	ASTM D 638	400,000
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	M88
HDT @ 264 psi	°F	ASTM D 648	225
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	5.50 x10 <sup>5</sup>
Dielectric Strength	V / mil	ASTM D 149	450
Volume Resistivity	ohm-cm	ASTM D 257	10 <sup>16</sup>
Dielectric Constant	-	ASTM D 150	3.8

### Typical Applications

- ⇒ Bushings and bearings
- ⇒ Rollers and gears
- ⇒ Valves and manifolds
- ⇒ Scraper blades
- ⇒ Wear strips and pads
- ⇒ Jigs and fixtures
- ⇒ Electrical components

### Certifications

- ⇒ ASTM D6100-05 POM 0211, D6778
- ⇒ FDA21 CFR 177.2470
- ⇒ USDA, 3A Dairy & NSF compliant



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Property data is based on typical values of resin as presented in an injection molded plaque. All information contained herein is presented in good faith based upon testing and practical experience. These values are not intended for use in establishing specification values. Röchling Engineering Plastics does not guarantee the accuracy and completeness of this information and it is the customer's sole responsibility to determine the suitability of the products in any given application.