

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 compliant

Typical Properties of Stock Shapes

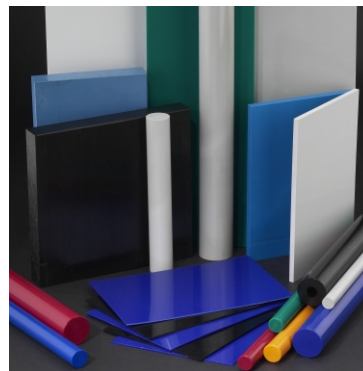
Property	Units	Test Method	Value Natural & Black
Specific Gravity	-	ASTM D 792	1.41
Water Absorption 24 hrs	%	ASTM D 570	0.2
Water Absorption Saturation	%	ASTM D 570	0.9
Flammability	-	UL 94	HB
Tensile Strength	psi	ASTM D 638	9,500
Elongation	%	ASTM D 638	40
Modulus	psi	ASTM D 638	400,000
Flexural Strength	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 ⁻⁵
Dielectric Strength	V / mil	ASTM D 149	450
Volume Resistivity	ohm-cm	ASTM D 257	10 ¹⁶
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 POM 0211, D6778
- ⇒ FDA21 CFR 177.2470
- ⇒ USDA compliant



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