

RÖCHLING datasheet

SUSTA | 2009

SUSTAPVDF

SUSTAPVDF (polyvinylidene fluoride) is a tough engineering thermoplastic that offers a unique balance of performance properties. It is chemically resistant to most acids, halogens, hydrocarbons, alcohols, salts and oxidants. SustaPVDF is thermally stable and inherently UV and gamma radiation resistant. This product is used extensively as parts and components in a wide range of industries such as semiconductor, chemical processing, pulp and paper and nuclear waste processing.

Product Features:

- ⇒ High Purity
- ⇒ Resistant to most chemicals and solvent
- ⇒ High strength and stiffness
- ⇒ Intrinsic flame retardance
- ⇒ Continuous use temperature of 290° F
- ⇒ Non-flammable
- ⇒ Excellent impact strength at cold temperatures
- ⇒ High thermal stability

Typical Properties of Stock Shapes

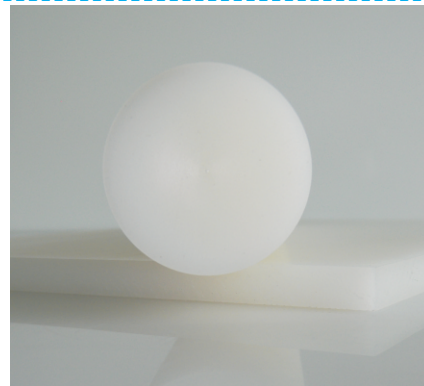
Property	Units	Test Method	Value Natural
Specific Gravity	-	ASTM D 792	1.78
Water Absorption 24 hrs	%	ASTM D 570	0.03
Water Absorption Saturation	%	ASTM D 570	0.05
Flammability	-	UL 94	V 0
Tensile Strength	psi	ASTM D 638	7,000
Elongation	%	ASTM D 638	100
Modulus	psi	ASTM D 638	250,000
Flexural Strength	psi	ASTM D 790	8,000
Modulus	psi	ASTM D 790	290,000
Notched Izod	ft-lb/in	ASTM D 256	3
Rockwell Hardness	-	ASTM D 785	M75
HDT @ 264 psi	°F	ASTM D 648	230
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	6.60 x 10 ⁻⁵
Dielectric Strength	V / mil	ASTM D 149	1600
Volume Resistivity	ohm-cm	ASTM D 257	10 ¹⁴
Dielectric Constant	-	ASTM D 150	8.5

Typical Applications

- ⇒ Valves
- ⇒ Fittings
- ⇒ Seals and gaskets
- ⇒ Pump components
- ⇒ Chemical handling systems
- ⇒ Semiconductor processing components

Certifications

- ⇒ ASTM D3222
- ⇒ FDA & USDA
- ⇒ UL-94 V0



Röchling Engineering Plastics

903 Gastonia Technology Parkway Phone: 704-922-7814
 Dallas, NC 28034, USA Fax: 704-922-7651

email: info@roechling-plastics.us
www.roechling-plastics.us