

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. Susta**PVDF** 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

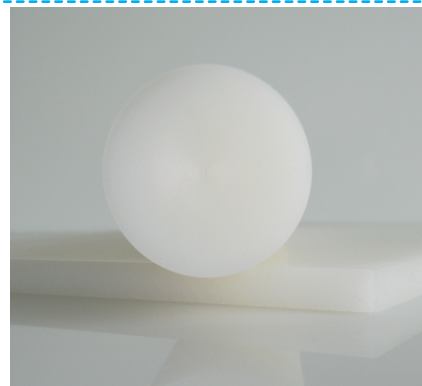
Property	Units	Test Method	Value Natural
Specific Gravity	-	ASTM D 792	1.78
Water Absorption 24 hrs	%	ASTM D 570	0.03
Water Absorption Saturation	%	ASTM D 570	0.05
Flammability	-	UL 94	V 0
Tensile Strength	psi	ASTM D 638	7,000
Elongation	%	ASTM D 638	100
Modulus	psi	ASTM D 638	250,000
Flexural Strength	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, USP Class VI, Dairy 3A compliant
- ⇒ 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