

Ensinger PVC Polyvinylchloride (PVC)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Molded

Material Notes:

Ensinger's type 1 grey PVC ROD is designed for machining solutions and is a cost effective solution for general industrial applications. The material offers an excellent combination of chemical resistance and mechanical strength, along with good thermal and electrical properties that are suited to a variety of industries. Excellent chemical and corrosion resistance Very good mechanical strength Non-contamination for applications requiring high levels of material purity Excellent flammability characteristics Manufactured in rod, Ensinger PVC can be used for applications such as pump housings, valve components and other parts as well as couplings in electronics applications that require good chemical resistance. Information provided by Ensinger

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-PVC-Polyvinylchloride-PVC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Tensile Modulus	2.83 GPa	410 ksi	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	52.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	29.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Maximum Service Temperature, Air	60.0 °C	140 °F	long term
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D648
Flammability, UL94	V-0	V-0	ASTM D648

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