

CPC - Vycom VINTEC I® PVC Polyvinyl Chloride (PVC)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Vintec I is a normal impact, high corrosion resistant polyvinyl chloride (PVC) sheet. Because of its exceptional corrosion resistance, it is ideally suited for applications where maximum chemical resistance is necessary. Its high strength-to-weight ratio, cost efficiency, ease of fabrication and economic balance make it the material of choice. Vintec I conforms to ASTM D-1784-95 Class 12454-B (Formerly Type I Grade 1) and is manufactured without the use of plasticizers or fillers. It can be used in self supporting construction up to 140° F (depending on chemistry). It exhibits excellent fire ratings (UL-94V-0) and has a flame spread under 20 per ASTM-E-84. Vintec I is available in numerous colors, finishes and sizes. FEATURES AND BENEFITS Strength- Vintec I combines tensile strength and stiffness for the toughest applications. Chemical Resistance- Vintec I is resistant to most acids and alkali solutions. Workability- Vintec I can be machined, cut, welded and glued for fabrication versatility. Low Cost- Vintec I is an economical choice for fabricating equipment, tanks, pumps etc. Consistency- Vintec I is extruded through most of the available gauges for dimensional consistency. Flammability- Vintec I is self extinguishing. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-VINTEC-I-PVC-Polyvinyl-Chloride-PVC.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Tensile Modulus	2.83 GPa	411 ksi	ASTM D638
Flexural Strength	88.3 MPa	12800 psi	Yeild; ASTM D790
Flexural Modulus	3.32 GPa	481 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	57.6 μm/m-°C	32.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	81.7 °C	179 °F	ASTM D648
Deflection Temperature at 1.8 MPa	80.0 °C	176 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	82.8 °C	181 °F	ASTM D1525
Flammability, UL94	V-0	V-0	
Flame Spread Index	15	15	ASTM E84

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.40e+15 ohm-cm	5.40e+15 ohm-cm	ASTM D257
Dielectric Constant	3.19 @Frequency 60 Hz	3.19 @Frequency 60 Hz	ASTM D150
Dielectric Strength	21.4 kV/mm	544 kV/in	ASTM D149
Dissipation Factor	0.0096 @Frequency 60 Hz	0.0096 @Frequency 60 Hz	ASTM D150
Dielectric Loss Index	0.030	0.030	ASTM D150

Descriptive Properties	Value	Comments
Chemical Resistance	Class B	ASTM D1784
Flammability	Self-Extinguishing	ASTM D635

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