

CPC - Vycom Corzan® CPVC Chlorinated PVC

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Corzan CPVC is a high heat, corrosion resistant chlorinated polyvinyl chloride (CPVC) sheet. Because of its excellent corrosion resistance at elevated temperatures, it is ideally suited for self-supporting constructions where high temperatures are a concern. It can be used (depending on chemistry) up to 180° F. Corzan CPVC conforms to ASTM-D-1784-95 Class 23447-B (formerly Type IV Grade 1) and is manufactured without fillers or plasticizers. FEATURES AND BENEFITS System compatibility- Corzan is available in pipe, valves, fitting and sheet to construct completely compatible systems. Machinable- Corzan can be machined, cut, routed and welded. Flammability- Corzan is self extinguishing and has a flame spread of less than 20. Physical properties- Corzan has outstanding strength through a range of temperatures. Impact- Corzan has excellent impact strength. Chemical resistance- Corzan has excellent chemical resistance to acids and alkalis. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-Corzan-CPVC-Chlorinated-PVC.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength, Ultimate	50.3 MPa	7300 psi	ASTM D638
Flexural Strength	98.6 MPa	14300 psi	ASTM D790
Flexural Modulus	2.49 GPa	361 ksi	ASTM D790
Compressive Strength	69.6 MPa	10100 psi	ASTM D695
Compressive Modulus	1.35 GPa	196 ksi	ASTM D695
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	69.5 µm/m-°C @Temperature 20.0 °C	38.6 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	92.2 °C	198 °F	ASTM D648
Flammability, UL94	5VB	5VB	0.062 in.

Thermal Properties	Metric	English	Comments
Oxygen Index	60 %	60 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.40e+15 ohm-cm	3.40e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	49.2 kV/mm	1250 kV/in	ASTM D147
Dissipation Factor	0.000070	0.000070	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Cell Class	24446-B	ASTM D1784
Smoke Developed	70 to 125	ASTM E84

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