

CPC - Vycom FLAMETEC™ CPVC Chlorinated Polyvinyl Chloride Sheet

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Flametek™ CPVC made from Corzan® 4910 white 120 compound is a high heat, corrosion resistant chlorinated polyvinyl chloride 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 212°F. The Corzan® 4910 compound was especially designed to meet FM 4910 Clean Room Protocol and it is considered to be a non-fire-propagating material. Flametek CPVC sheet made from Corzan® 4910 compound is listed in accordance with the FMRC 4910 protocol and it has a class 1 rating in accordance to UL 2360e. FEATURES AND BENEFITS Chemical Resistance- Stability after exposure to semiconductor process chemistry. Strength- Structural integrity to design process tools. Weldability- Flametek™ CPVC can be easily fabricated using conventional hot air and automated welding equipment. Fire Safe- Flametek™ CPVC compound is listed in accordance to FM 4910 protocol and has a class 1 rating in accordance to UL 2360. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-FLAMETEC-CPVC-Chlorinated-Polyvinyl-Chloride-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Ultimate	54.5 MPa	7900 psi	ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	3.15 GPa	457 ksi	ASTM D790
Compressive Strength	69.6 MPa	10100 psi	ASTM D695
Compressive Modulus	1.35 GPa	196 ksi	ASTM D695
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	66.6 μm/m-°C	37.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
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)	103 °C	217 °F	ASTM D648

Flammability UL 94 Thermal Properties	SVB Metric	SVB English	0.062 in 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 @Frequency 60 Hz	3.7 @Frequency 60 Hz	ASTM D150
Dielectric Strength	49.2 kV/mm	1250 kV/in	ASTM D147
Dissipation Factor	0.000070 @Frequency 60 Hz	0.000070 @Frequency 60 Hz	ASTM D150

Descriptive Properties	Value	Comments
Factory Mutual	4910 Listed	File #3002299

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