

CPC - Vycom FLAMETEC™ CLEANROOM PVC-C Sheet Material

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Cleanroom PVC-C sheet material is designed to be the most economical choice in FM 4910 materials. Compression Polymers Corp's Cleanroom PVC-C has been audited and tested in accordance with the FM 4910 protocol. It meets the test criteria with an FPI of 2 (limit of 6 max) and an SDI of 0.1 (0.4 max). PVC-C is FM listed. FEATURES AND BENEFITS Economics- The most economical sheet available for FM 4910 listed products. Weldability- Easy to fabricate with conventional welding equipment. It is also compatible with Corzan® 4910 CPVC. Strength- Superior physical characteristics to handle structural applications, inserts, machining, etc. Compatibility- Completely compatible with Corzan® 4910 CPVC systems and a broad range of semiconductor chemistry. Fire Safe- Listed in accordance to FM 4910 fire safe materials for clean room construction JI 3010757. Extruded Sheet- Extruded sheet offers the best surface quality and gauge consistency. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

http://www.lookpolymers.com/polymer_CPC-Vycom-FLAMETEC-CLEANROOM-PVC-C-Sheet-Material.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.55 g/cc | 0.0560 lb/in ³ | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|-------------------------------|
| Hardness, Rockwell R | 114 | 114 | ASTM D785 |
| Tensile Strength, Ultimate | 48.3 MPa | 7000 psi | at 0.2"/min; ASTM D638 |
| Tensile Modulus | 3.10 GPa | 450 ksi | at 0.2"/min; ASTM D638 |
| Flexural Strength | 82.7 MPa | 12000 psi | ASTM D790 |
| Flexural Modulus | 2.76 GPa | 400 ksi | ASTM D790 |
| Izod Impact, Notched | 1.60 J/cm | 3.00 ft-lb/in | compression molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------------------|----------------------|--------------|
| CTE, linear | 124 µm/m-°C | 69.0 µin/in-°F | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C | 176 °F | ASTM D648 |
| Flammability Test | 0.060 | 0.060 | SDI; UL 2360 |
| | 0.10 | 0.10 | SDI; FM 4910 |
| | 1.6 | 1.6 | FPI; UL 2360 |
| | 2.0 | 2.0 | FPI; FM 4910 |

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