

CPC - Vycom VINTEC® II TYPE II PVC Polyvinyl Chloride (PVC)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Vintec II is a high impact, corrosion resistant polyvinyl chloride (PVC) sheet. Because of its excellent impact and ductility it is ideally suited for applications that require thermal forming or where the finished product is subject to shock or physical abuse. Vintec II conforms to ASTM-D-1784-95 Class 16444-D (Formerly Type II Grade 1) and is manufactured without fillers or plasticizers. Its high heat deflection temperature and high modulus make it ideally suited for operation at temperatures up to 140° F with fewer supports than other Type II materials. Material conforming to former Type II classification were only required to have an Izod impact of 18 per ASTM-D-256. This allows the sheet to be cold rolled into large diameter cylinders for exhaust systems. Exceptional fire ratings UL-94V-0 and flame spread under 20 per ASTM-E-84 also enhance its position in this application. Vintec II is available in numerous colors, finishes and sizes.

FEATURES AND BENEFITS

Strength- Vintec II is a high impact strength product; over 15 times the value of standard PVC.

Chemical Resistance- Vintec II has good chemical resistance to acids, alkalis and fumes.

Ductility- Vintec II can be cold rolled for duct and ventilation applications.

Formability- Vintec II has excellent thermoforming and vacuum forming characteristics.

Workability- Vintec II can be cold rolled, formed, cut, shaped and welded.

Consistency- Vintec II is extruded through its available range of gauges for dimensional consistency.

Flammability- Vintec II is self extinguishing and it has a flame spread of 20 according to ASTM E84. Information provided by Compression Polymers Corp - Vycom

Order this product through the following link:

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

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | ASTM D792 |
| Water Absorption | 0.16 % | 0.16 % | ASTM D570 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|------------------|
| Hardness, Rockwell R | 106 | 106 | ASTM D785 |
| Hardness, Shore D | 85 | 85 | ASTM D2240 |
| Tensile Strength, Yield | 51.0 MPa | 7400 psi | ASTM D638 |
| Tensile Modulus | 2.73 GPa | 396 ksi | ASTM D638 |
| Flexural Strength | 68.9 MPa | 10000 psi | Yeild; ASTM D790 |
| Flexural Modulus | 2.76 GPa | 400 ksi | ASTM D790 |
| Izod Impact, Notched | 9.61 J/cm | 18.0 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------------------|----------------------|-----------|
| CTE, linear | 63.0 μm/m-°C | 35.0 μin/in-°F | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 81.7 °C | 179 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C | 176 °F | ASTM D648 |
| 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 | 6.00e+15 ohm-cm | 6.00e+15 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.03 | 3.03 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Dielectric Strength | 25.4 kV/mm | 645 kV/in | ASTM D149 |
| Dissipation Factor | 0.0083 | 0.0083 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Dielectric Loss Index | 0.025 | 0.025 | ASTM D150 |

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

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