

Thermovin™ 180

Rigid Polyvinyl Chloride

Vi-Chem Corporation

Message:

Thermovin™ 180 is a Rigid Polyvinyl Chloride material filled with 5.0% filler. It is available in North America for extrusion.
Typical application of Thermovin™ 180: Automotive

| General Information | | | |
|--|------------------------------|-------------------|-------------|
| Filler / Reinforcement | Filler,5.0% Filler by Weight | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.20 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D, 15 sec) | 76 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | 49.0 | MPa | ASTM D638 |
| Flexural Modulus - Tangent ² (50.0 mm Span) | 2100 | MPa | ASTM D790 |
| Flexural Strength | 74.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 470 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 87.0 | °C | |
| 1.8 MPa, Unannealed | 80.7 | °C | |
| Additional Information | Nominal Value | Unit | Test Method |
| Fungal Resistance | Pass | | GM 9328P |
| High Temperature Humidity Resistance | Pass | | GM 9329P |
| Low Temperature Flexibility (-30°C) ³ | No Cracks | | GM 9503P |
| Mixed Fungal Resistance | Pass | | GM 9303P |
| Volatile Loss | 0.21 | % | ASTM D1203 |
| Weather Resistance ⁴ | | | SAE J1976 |
| Color Change, Delta E | 1.75 | | |
| Surface Defects | Pass | | |
| Xenon Arc ⁵ | | | |
| Color Change, Delta E | 0.500 | | |
| Surface Defects | Pass | | |
| NOTE | | | |
| 1. | Type IV, 500 mm/min | | |

| | |
|----|-------------------------------------|
| 2. | Method I (3 point load), 1.3 mm/min |
| 3. | 2 in Mandrel |
| 4. | 2 yr, Florida, 5° South Direct |
| 5. | 2500 kJ/m ² |

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