

PolyOne Geon™ Vinyl Rigid Molding M4820 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M4820-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.30 g/cc | 1.30 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | ASTM D955 |
| Spiral Flow | 88.9 cm | 35.0 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|---|------------------------------|
| Hardness, Shore D | 81 | 81 | ASTM D2240 |
| Tensile Strength, Yield | 44.8 MPa | 6500 psi | Type I, 51 mm/min; ASTM D638 |
| Elongation at Break | 40 % | 40 % | Type I, 51 mm/min; ASTM D638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 68.9 MPa | 9990 psi | ASTM D790 |
| Flexural Modulus | 2.41 GPa | 350 ksi | ASTM D790 |
| Izod Impact, Notched | 1.10 J/cm | 2.06 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 0.000 °C | @Thickness 0.125 in, Temperature 32.0 °F | |
| | 6.90 J/cm | 12.9 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|---------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 70.0 °C | 158 °F | Unannealed; ASTM D648 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| | 72.8 °C | 163 °F | Annealed; ASTM D648 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Deflection Temperature at 1.8 MPa | 67.8 °C | 154 °F | Unannealed; ASTM D648 |

| (264 psi) Thermal Properties | @Thickness 6.35 mm Metric | @Thickness 0.250 in English | Comments |
|-----------------------------------|------------------------------|--------------------------------|---------------------|
| | 71.1 °C | 160 °F | Annealed; ASTM D648 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| UL RTI, Electrical | 50.0 °C | 122 °F | UL 746 |
| UL RTI, Mechanical with Impact | 50.0 °C | 122 °F | UL 746 |
| UL RTI, Mechanical without Impact | 50.0 °C | 122 °F | UL 746 |
| Flammability, UL94 | V-0 | V-0 | ALL; UL 94 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 5VA | 5VA | ALL; UL 94 |
| | @Thickness 1.91 mm | @Thickness 0.0752 in | |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------------------|---------------------|------------|
| Haze | 4.0 % | 4.0 % | ASTM D1003 |
| | @Thickness 3.81 mm | @Thickness 0.150 in | |
| Transmission, Visible | 75 % | 75 % | ASTM D1003 |
| | @Thickness 3.81 mm | @Thickness 0.150 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 199 - 204 °C | 390 - 399 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Appearance | Clear/Transparent | |
| Features | General Purpose | |
| | High Flow | |
| | High Impact Resistance | |
| Forms | Pellets | |
| Generic Material | PVC, Rigid | |
| Generic Name | Polyvinyl Chloride, Rigid (PVC, Rigid) | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |

| Descriptive Properties | Value America | Comments |
|------------------------|-----------------|----------|
| | South America | |
| Uses | General Purpose | |

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