

PolyOne Geon™ SF M7020 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-SF-M7020-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.33 g/cc | 1.33 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | ASTM D955 |
| Spiral Flow | 119.38 cm | 47.000 in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|---|------------------------------|
| Hardness, Shore D | 79 | 79 | ASTM D2240 |
| Tensile Strength, Yield | 41.4 MPa | 6000 psi | Type I, 51 mm/min; ASTM D638 |
| Elongation at Break | 35 % | 35 % | Type I, 51 mm/min; ASTM D638 |
| Tensile Modulus | 2.28 GPa | 331 ksi | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 62.7 MPa | 9090 psi | ASTM D790 |
| Flexural Modulus | 2.31 GPa | 335 ksi | ASTM D790 |
| Izod Impact, Notched | 1.10 J/cm | 2.06 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature -18.0 °C | @Thickness 0.125 in, Temperature -0.400 °F | |
| | 2.70 J/cm | 5.06 ft-lb/in | |
| | @Thickness 3.18 mm, Temperature 0.000 °C | @Thickness 0.125 in, Temperature 32.0 °F | Injection Molded; ASTM D256A |
| | 6.40 J/cm | 12.0 ft-lb/in | |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|--|--------------------|---------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 67.2 °C | 153 °F | Unannealed; ASTM D648 |
| | @Thickness 3.18 mm | @Thickness 0.125 in | |
| | 71.1 °C | 160 °F | Annealed; ASTM D648 |
| | @Thickness 3.18 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | @Thickness 3.18 mm | @Thickness 0.125 in | Unannealed; ASTM D648 |
| | 70.0 °C | 158 °F | Annealed; ASTM D648 |
| | @Thickness 3.18 mm | @Thickness 0.125 in | |
| UL RTI, Electrical | 90.0 °C | 194 °F | UL 746 |
| UL RTI, Mechanical with Impact | 85.0 °C | 185 °F | UL 746 |
| UL RTI, Mechanical without Impact | 90.0 °C | 194 °F | UL 746 |
| Flammability, UL94 | V-0 | V-0 | |
| | 5VA | 5VA | |
| | V-0 | V-0 | ALL; UL 94 |
| | @Thickness 1.80 mm | @Thickness 0.0709 in | |
| | 5VA | 5VA | ALL; UL 94 |
| | @Thickness 1.80 mm | @Thickness 0.0709 in | |
| | 5VA | 5VA | All Colors |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 199 - 210 °C | 390 - 410 °F | |

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

| Descriptive Properties | Value | Comments |
|------------------------|--------------------|----------|
| | North America | |
| | South America | |
| RoHS Compliance | RoHS Compliant | |
| Uses | Medical Appliances | |

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