

PolyOne Geon™ Vinyl Fittings 210(HR) 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-Fittings-210HR-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.42 g/cc | 1.42 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|------------------------------|
| Hardness, Shore D | 81 | 81 | ASTM D2240 |
| Tensile Strength, Yield | 51.0 MPa | 7400 psi | Type I, 51 mm/min; ASTM D638 |
| Tensile Modulus | 2.92 GPa | 424 ksi | Type I, 51 mm/min; ASTM D638 |
| Flexural Strength | 91.7 MPa | 13300 psi | ASTM D790 |
| Flexural Modulus | 3.28 GPa | 476 ksi | ASTM D790 |
| Izod Impact, Notched | 0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Injection Molded; ASTM D256A |

| Thermal Properties | Metric | English | Comments |
|--|-------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 70.6 °C @Thickness 6.35 mm | 159 °F @Thickness 0.250 in | Unannealed; ASTM D648 |
| | 72.2 °C @Thickness 6.35 mm | 162 °F @Thickness 0.250 in | Annealed; ASTM D648 |

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

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Agency Ratings | NSF 14 | |
| | NSF 61 | |

| Descriptive Properties | NSF Type I Value | Comments |
|-------------------------|--|------------|
| Features | High Flow | |
| Forms | Pellets | |
| Generic Material | PVC, Rigid | |
| Generic Name | Polyvinyl Chloride, Rigid (PVC, Rigid) | |
| Processing Method | Injection Molding | |
| PVC Cell Classification | 12454 | ASTM D1784 |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | Fittings | |

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