

PolyOne Geon™ Vinyl Rigid Extrusion L6181 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-Extrusion-L6181-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.42 g/cc | 1.42 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|---|
| Hardness, Shore D | 83 | 83 | 15 sec; ASTM D2240 |
| Tensile Strength, Yield | 44.7 MPa | 6480 psi | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 3.30 GPa | 479 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Strength | 83.6 MPa | 12100 psi | ASTM D790 |
| Flexural Modulus | 3.10 GPa | 450 ksi | ASTM D790 |
| Izod Impact, Notched | 1.90 J/cm | 3.56 ft-lb/in | Compression Molded, Across Flow; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |
| | 2.00 J/cm | 3.75 ft-lb/in | Compression Molded, Flow; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |
| Dart Drop Total Energy | 12.0 J/cm | 22.5 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |
| | 64.9 J/cm | 0.122 ft-lb/mil | Procedure A, C.125; ASTM D4226 |
| @Temperature 23.0 °C | @Temperature 73.4 °F | | |
| Dart Drop Total Energy | 159 J/cm | 0.298 ft-lb/mil | Procedure B, C.125; ASTM D4226 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | | | |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|-----------------------|
| CTE, linear, Parallel to Flow | 63.0 μm/m-°C | 35.0 μin/in-°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 °C | 158 °F | Unannealed; ASTM D648 |

| Thermal Properties | @Thickness 3.18 mm Metric | @Thickness 0.125 in English | Comments |
|-----------------------|------------------------------|--------------------------------|----------|
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 182 - 193 °C | 360 - 379 °F | |

| Descriptive Properties | Value | Comments |
|-------------------------|--|------------|
| Ease of Sizing | Good | |
| Features | General Purpose | |
| | High Impact Resistance | |
| Forms | Pellets | |
| Generic Material | PVC, Rigid | |
| Generic Name | Polyvinyl Chloride, Rigid (PVC, Rigid) | |
| Processing Method | Extrusion | |
| PVC Cell Classification | 16364 | ASTM D1784 |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | General Purpose | |
| | Profiles | |

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