

PolyOne Geon™ Vinyl Rigid Extrusion 87554 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

The Cell Classification was determined using the notched Izod test with injection molded samples. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87554-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.33 g/cc | 1.33 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|---|
| Hardness, Shore D | 82 | 82 | 15 sec; ASTM D2240 |
| Tensile Strength, Yield | 53.4 MPa | 7750 psi | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 2.79 GPa | 405 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Strength | 88.5 MPa | 12800 psi | ASTM D790 |
| Flexural Modulus | 2.84 GPa | 412 ksi | ASTM D790 |
| Izod Impact, Notched | 1.40 J/cm | 2.62 ft-lb/in | Compression Molded, Flow; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |
| | 5.70 J/cm | 10.7 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 | |
| Dart Drop Total Energy | 11.0 J/cm | 20.6 ft-lb/in | Injection Molded; ASTM D256A |
| | @Thickness 3.18 mm, Temperature 23.0 °C | @Thickness 0.125 in, Temperature 73.4 °F | |
| | 52.0 J/cm | 0.0974 ft-lb/mil | Procedure A, C.125; ASTM D4226 |
| @Temperature 23.0 °C | @Temperature 73.4 °F | | |
| | 173 J/cm | 0.324 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 | 70.0 µm/m-°C | 38.9 µin/in-°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 67.2 °C | 153 °F | Unannealed; ASTM D648 |

| Thermal Properties | @Thickness 3.18 mm Metric | @Thickness 0.125 in English | Comments |
|--------------------|------------------------------|--------------------------------|------------|
| Flammability, UL94 | V-0 | V-0 | ALL; UL 94 |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | 5VA | 5VA | ALL; UL 94 |
| | @Thickness 2.30 mm | @Thickness 0.0906 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 182 - 193 °C | 360 - 379 °F | |

| Descriptive Properties | Value | Comments |
|-------------------------|--|------------|
| Appearance | Clear/Transparent | |
| 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 | 16453 | ASTM D1784 |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | General Purpose | |
| | Profiles | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China