

PolyOne Geon™ Vinyl Packaging JGR 136A Clear 13FG 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-Packaging-JGR-136A-Clear-13FG-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|---------------------------|------------|
| Specific Gravity | 1.30 g/cc | 1.30 g/cc | ASTM D792 |
| Density | 0.801 g/cc | 0.0289 lb/in ³ | ASTM D1505 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---|--|-------------------------------|
| Hardness, Rockwell R | 100 | 100 | ASTM D785 |
| Hardness, Shore D | 79 | 79 | ASTM D2240 |
| Tensile Strength, Yield | 46.5 MPa | 6740 psi | Type I, 5.1 mm/min; ASTM D638 |
| Tensile Modulus | 2.40 GPa | 348 ksi | Type I, 5.1 mm/min; ASTM D638 |
| Flexural Strength | 80.7 MPa | 11700 psi | ASTM D790 |
| Flexural Modulus | 2.69 GPa | 390 ksi | ASTM D790 |
| Izod Impact, Notched | 8.50 J/cm @Thickness 3.18 mm, Temperature 23.0 °C | 15.9 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) | 60.0 °C @Thickness 3.18 mm | 140 °F @Thickness 0.125 in | Unannealed; ASTM D648 |

| Optical Properties | Metric | English | Comments |
|-----------------------|---|--|-----------------|
| Transmission, Visible | 80 % @Thickness 0.838 mm, Wavelength 400 nm | 80 % @Thickness 0.0330 in, Wavelength 400 nm | Internal Method |
| | 80 % @Thickness 0.838 mm, Wavelength 700 nm | 80 % @Thickness 0.0330 in, Wavelength 700 nm | Internal Method |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|--------------|
| Mold Temperature | 199 - 213 °C | 390 - 415 °F | Blow Molding |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Agency Ratings | FDA Food Contact, Unspecified Rating | |
| Appearance | Clear/Transparent | |
| Features | Food Contact Acceptable | |
| | High Gloss | |
| | Medium Impact Resistance | |
| Forms | Pellets | |
| Generic Material | PVC, Rigid | |
| Generic Name | Polyvinyl Chloride, Rigid (PVC, Rigid) | |
| Processing Method | Blow Molding | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Uses | Bottles | |
| | Packaging | |

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