

PolyOne Geon™ Vinyl Wire & Cable W1800L Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Wire and Cable Grade

Material Notes:

Typical Properties of Molded Slab (0.075); Not to be Construed as Specifications. Provisional Product Information - Physical and Mechanical properties based on initial production. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Wire-Cable-W1800L-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.34 g/cc | 1.34 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|--------------------------------|
| Hardness, Shore A | 87 | 87 | 15 sec; ASTM D2240 |
| Tensile Strength, Yield | 18.6 MPa | 2700 psi | Type IV, 510 mm/min; ASTM D638 |
| Elongation at Break | 300 % | 300 % | Type IV, 510 mm/min; ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------------|-----------------------------|-----------------------|
| Maximum Service Temperature, Air | 90.0 °C | 194 °F | UL Temperature Rating |
| Brittleness Temperature | -30.0 °C | -22.0 °F | ASTM D746 |
| Oxygen Index | 25 % @Thickness 3.18 mm | 25 % @Thickness 0.125 in | ASTM D2863 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 171 - 177 °C | 340 - 351 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Forms | Pellets | |
| Generic Material | PVC, Flexible | |
| Generic Name | Polyvinyl Chloride, Flexible (PVC, Flexible) | |
| Processing Method | Extrusion Coating | |
| Regional Availability | Africa & Middle East Asia Pacific | |

| Descriptive Properties | Value | Comments |
|---------------------------------|---------------------------|--------------------------------------|
| | North America | |
| | South America | |
| Retention of Tensile Elongation | 100% | 121°C, 889.0 µm; 168 hr, UL Standard |
| Retention of Tensile Strength | 65% | 121°C, 889.0 µm; 168 hr, UL Standard |
| RoHS Compliance | RoHS Compliant | |
| Uses | Insulation | |
| | Wire & Cable Applications | |

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