

PolyOne Geon™ Vinyl Flexible 90215 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

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-Flexible-90215-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|--|-----------------------------|
| Specific Gravity | 1.37 g/cc | 1.37 g/cc | ASTM D792 |
| Volatiles | 1.5 % | 1.5 % | Loss; Method A; ASTM D1203B |
| | @Thickness 3.18 mm, Temperature 105 °C | @Thickness 0.125 in, Temperature 221 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|----------|--------------------------------|
| Hardness, Shore A | 83 | 83 | 15 sec; ASTM D2240 |
| Tensile Strength at Break | 12.8 MPa | 1860 psi | Type IV, 510 mm/min; ASTM D638 |
| Elongation at Break | 200 % | 200 % | Type IV, 510 mm/min; ASTM D638 |
| Tear Strength | 70.1 kN/m | 400 pli | Die C, 51 mm/min; ASTM D624 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|----------|----------|-----------|
| Brittleness Temperature | -25.0 °C | -13.0 °F | ASTM D746 |

| Optical Properties | Metric | English | Comments |
|--------------------|-----------|-----------|----------------|
| Gloss | 20 - 40 % | 20 - 40 % | 60°; ASTM D523 |

| Descriptive Properties | Value | Comments |
|------------------------|--|----------|
| Features | Medium Gloss | |
| Forms | Pellets | |
| Generic Material | PVC, Flexible | |
| Generic Name | Polyvinyl Chloride, Flexible (PVC, Flexible) | |
| Processing Method | Encapsulating | |
| | Injection Molding | |
| Regional Availability | Africa & Middle East | |

| Descriptive Properties | Value | Comments |
|------------------------|-------------------------|--|
| | Europe | |
| | North America | |
| | South America | |
| Uses | Automotive Applications | |
| | Outdoor Applications | |
| Xenon Weatherometer | < 0.50% | SAE J1960; Exterior, 2500 kJ/m ² , Black, dE* < 3.0 |

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