# Geon™ Vinyl Flexible R5160A

## Flexible Polyvinyl Chloride

### Key Characteristics

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive | • Biocide | | |
| Features | • Good Melt Strength | | |
| Uses | • Construction Applications<br>• Hose | • Profiles<br>• Tubing | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | • Extrusion | • Profile Extrusion |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.37 | 1.37 | ASTM D792 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2] (100% Strain) | 600 psi | 4.14 MPa | ASTM D638 |
| Tensile Strength [2] (Break) | 1450 psi | 10.0 MPa | ASTM D638 |
| Tensile Elongation [2] (Break) | 350 % | 350 % | ASTM D638 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tear Strength [3] | 200 lbf/in | 35.0 kN/m | ASTM D624 |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness (Shore A, 15 sec) | 60 | 60 | ASTM D2240 |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Brittleness Temperature | -45.0 °F | -42.8 °C | ASTM D746 |

### Processing Information

| Extrusion | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Melt Temperature | 310 to 330 °F | 154 to 166 °C |

**Notes**

[1] Typical values are not to be construed as specifications.

[2] Type IV, 20 in/min (510 mm/min)

[3] Die C, 20 in/min (510 mm/min)