



## Geon™ Vinyl Flexible C70UB

### 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                                | • UV Stabilizer                            |                 |
| Features              | • Medium Gloss                           | • UV Absorbing                             |                 |
| Forms                 | • Pellets                                |                                            |                 |
| Processing Method     | • Coextrusion<br>• Extrusion             | • Injection Molding<br>• Profile Extrusion |                 |

#### Technical Properties <sup>1</sup>

| Physical                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                            | 1.39                    | 1.39               | ASTM D792   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 630 psi                 | 4.34 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 1400 psi                | 9.65 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 390 %                   | 390 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 200 lbf/in              | 35.0 kN/m          | ASTM D624   |
| Compression Set (73°F (23°C), 22 hr)        | 20 %                    | 20 %               | ASTM D395   |
| Clash-Berg Modulus                          |                         |                    | ASTM D1043  |
| --                                          | 11800 psi               | 81.4 MPa           |             |
| -51°F (-46°C)                               | 45000 psi               | 310 MPa            |             |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness                          |                         |                    | ASTM D2240  |
| Shore A                                     | 70                      | 70                 |             |
| Shore A, 15 sec                             | 64                      | 64                 |             |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | -44.0 °F                | -42.2 °C           | ASTM D746   |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 390 °F           | 193 to 199 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 340 to 350 °F           | 171 to 177 °C      |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type IV, 20 in/min (510 mm/min)

<sup>3</sup> Die C, 20 in/min (510 mm/min)

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