

# Geon™ Vinyl Flexible B85UB

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Flexible B85UB is a Flexible Polyvinyl Chloride product. It can be processed by coextrusion, extrusion, or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Bags/Liners. Primary characteristic: uv stabilized.

| General Information |                   |  |  |
|---------------------|-------------------|--|--|
| Additive            | Biocide           |  |  |
|                     | UV Stabilizer     |  |  |
| Features            | Medium Gloss      |  |  |
|                     | UV Absorbing      |  |  |
| Uses                | Liners            |  |  |
| Forms               | Pellets           |  |  |
| Processing Method   | Coextrusion       |  |  |
|                     | Extrusion         |  |  |
|                     | Injection Molding |  |  |

| Physical           | Nominal Value | Unit              | Test Method |
|--------------------|---------------|-------------------|-------------|
| Specific Gravity   | 1.33          | g/cm <sup>3</sup> | ASTM D792   |
| Hardness           | Nominal Value | Unit              | Test Method |
| Durometer Hardness |               |                   | ASTM D2240  |
| Shore A            | 90            |                   |             |
| Shore A, 15 sec    | 83            |                   |             |

| Mechanical                              | Nominal Value | Unit | Test Method |
|-----------------------------------------|---------------|------|-------------|
| Tensile Strength <sup>1</sup>           |               |      | ASTM D638   |
| Break                                   | 17.0          | MPa  |             |
| 100% Strain                             | 10.3          | MPa  |             |
| Tensile Elongation <sup>2</sup> (Break) | 360           | %    | ASTM D638   |
| Tear Resistance <sup>3</sup>            | 79.7          | kN/m | ASTM D1004  |
| Elastomers                              | Nominal Value | Unit | Test Method |
| Compression Set (23°C, 22 hr)           | 35            | %    | ASTM D395   |
| Clash-Berg Modulus                      |               |      | ASTM D1043  |
| --                                      | 536           | MPa  |             |
| -27°C                                   | 310           | MPa  |             |

| Thermal                 | Nominal Value | Unit | Test Method |
|-------------------------|---------------|------|-------------|
| Brittleness Temperature | -29.0         | °C   | ASTM D746   |
| Injection               | Nominal Value | Unit |             |

|                        |                 |      |
|------------------------|-----------------|------|
| Processing (Melt) Temp | 193 to 199      | °C   |
| Extrusion              | Nominal Value   | Unit |
| Melt Temperature       | 171 to 177      | °C   |
| NOTE                   |                 |      |
| 1.                     | 510 mm/min      |      |
| 2.                     | 510 mm/min      |      |
| 3.                     | Die C, 2 in/min |      |

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