



## Geon™ Vinyl Flexible 83700

### Flexible Polyvinyl Chloride

#### Key Characteristics

| General                   |                                                                                                             |                                                              |                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                                                        |                                                              |                                                                                 |
| Regional Availability     | • Africa & Middle East<br>• Asia Pacific                                                                    | • Europe<br>• Latin America                                  | • North America                                                                 |
| Features                  | • General Purpose                                                                                           | • Medium Gloss                                               |                                                                                 |
| Uses                      | • Automotive Applications                                                                                   | • General Purpose                                            | • Outdoor Applications                                                          |
| Automotive Specifications | • CHRYSLER MS-DC-23<br>CPN2928 Color: 2850<br>Black<br>• CHRYSLER MS-DC-232<br>CPN2865 Color: 2850<br>Black | • FORD ESB-M4D259 Type<br>IV<br>• FORD ESB-M4D284 Type<br>IV | • FORD ESB-M4D284-C4<br>Color: Black<br>• FORD ESB-M4D284-C4<br>Color: Charcoal |
| Forms                     | • Pellets                                                                                                   |                                                              |                                                                                 |

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

| Physical                                                                       | Typical Value (English) | Typical Value (SI) | Test Method |
|--------------------------------------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                                                     | 1.40                    | 1.40               | ASTM D792   |
| Mechanical                                                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (Break)                                          | 2200 psi                | 15.2 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                                        | 320 %                   | 320 %              | ASTM D638   |
| Tear Resistance <sup>3</sup>                                                   | 330 lbf/in              | 57.9 kN/m          | ASTM D1004  |
| Hardness                                                                       | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore A, 15 sec)                                           | 83                      | 83                 | ASTM D2240  |
| Additional Information                                                         | Typical Value (English) | Typical Value (SI) | Test Method |
| Fungal Resistance                                                              | Pass                    | Pass               | ASTM G21    |
| Low Temperature Flexibility <sup>4</sup><br>-20°F (-29°C), 20.0 mil (508.0 µm) | Pass                    | Pass               |             |
| Volatile Loss <sup>5</sup><br>221°F (105°C), 75.0 mil (1.91 mm)                | 1.1 %                   | 1.1 %              | ASTM D1203B |
| Xenon Weatherometer <sup>6</sup><br>Note: Automotive OEM approval(s).          | Pass                    | Pass               | SAE J1960   |

#### Notes

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

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

<sup>3</sup> Die C, 2 in/min

<sup>4</sup> 4 hr, 12 mm

<sup>5</sup> Method A

<sup>6</sup> Exterior, 2500 kJ/m<sup>2</sup>, Black, dE\* < 3.0