

# GEON® Flex R7661A

## GEON Performance Solutions - Flexible Polyvinyl Chloride

Monday, June 17, 2024

### General Information

| General           |                                          |                             |                 |
|-------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status   | • Commercial: Active                     |                             |                 |
| Availability      | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive          | • Lead Stabilizer                        |                             |                 |
| Features          | • Flame Retardant                        |                             |                 |
| Uses              | • Building Wire Insulation               | • Wire & Cable Applications |                 |
| Wire Types        | • TW                                     |                             |                 |
| Forms             | • Pellets                                |                             |                 |
| Processing Method | • Extrusion Coating                      |                             |                 |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                                                          | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                                                        | 1.32                    | 1.32               | ASTM D792   |
| Mechanical                                                                        | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (Yield)                                             | 2700 psi                | 18.6 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)                                           | 350 %                   | 350 %              | ASTM D638   |
| Hardness                                                                          | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness (Shore A, 15 sec)                                              | 83                      | 83                 | ASTM D2240  |
| Thermal                                                                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Brittleness Temperature                                                           | -13.0 °F                | -25.0 °C           | ASTM D746   |
| Aging                                                                             | Nominal Value (English) | Nominal Value (SI) |             |
| Retention of Tensile Elongation <sup>3</sup><br>250°F (121°C), 75.0 mil (1.91 mm) | 75 %                    | 75 %               |             |
| Retention of Tensile Strength <sup>3</sup><br>250°F (121°C), 75.0 mil (1.91 mm)   | 100 %                   | 100 %              |             |
| Electrical                                                                        | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Volume Resistivity                                                                | 5.4E+15 ohms·cm         | 5.4E+15 ohms·cm    | ASTM D257   |
| Flammability                                                                      | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Oxygen Index (0.0750 in (1.91 mm))                                                | 24 %                    | 24 %               | ASTM D2863  |

### Additional Information

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

### Processing Information

| Extrusion        | Nominal Value (English) | Nominal Value (SI) |
|------------------|-------------------------|--------------------|
| Melt Temperature | 329 to 347 °F           | 165 to 175 °C      |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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

<sup>3</sup> 336 hr, UL Standard

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