



Geon™ Duracap™ L4605 Green 5765

Semi-Rigid Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Medium Gloss | | |
| Uses | • Capstock | • Outdoor Applications | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | | |

Technical Properties ¹

| 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 Modulus ² | 280000 psi | 1930 MPa | ASTM D638 |
| Tensile Strength ² (Yield) | 4530 psi | 31.2 MPa | ASTM D638 |
| Flexural Modulus ³ | 277000 psi | 1910 MPa | ASTM D790 |
| Flexural Strength ³ (Yield) | 8110 psi | 55.9 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.125 in (3.18 mm), Compression Molded | 0.69 ft·lb/in | 37 J/m | |
| Drop Impact Resistance | | | ASTM D4226 |
| 73°F (23°C), extruded profile ⁴ | 1.56 in·lb/mil | 69.4 J/cm | |
| 73°F (23°C) ⁵ | > 4.00 in·lb/mil | > 178 J/cm | |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D, 15 sec) | 75 | 75 | ASTM D2240 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm) | 109 °F | 42.8 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) | 108 °F | 42.2 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 102 °F | 38.9 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) | 97.0 °F | 36.1 °C | |
| CLTE - Flow | 4.2E-5 in/in/°F | 7.5E-5 cm/cm/°C | ASTM D696 |
| Optical | Typical Value (English) | Typical Value (SI) | Test Method |
| Gardner Gloss (60°) | 5 to 30 | 5 to 30 | ASTM D523 |

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Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 360 to 380 °F | 182 to 193 °C |

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.1 mm/min)

³ 0.50 in/min (13 mm/min)

⁴ Procedure A, C.125

⁵ Procedure B, C.125

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