# Geon™ HTX Ultra LA426 Black 2880

## Polyvinyl Chloride Alloy

### Key Characteristics

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • High Impact Resistance | • High Stiffness | |
| Uses | • Capstock | • Outdoor Applications | • Profiles |
| Forms | • Cube | • Pellets | |
| Processing Method | • Extrusion | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.22 | 1.22 | ASTM D792 |
| PVC Cell Classification | 441421540000 | 441421540000 | ASTM D4216 |
| PVC Cell Classification | 15225 | 15225 | ASTM D1784 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus [2] | 287000 psi | 1980 MPa | ASTM D638 |
| Tensile Strength [2] (Yield) | 5470 psi | 37.7 MPa | ASTM D638 |
| Flexural Modulus | 299000 psi | 2060 MPa | ASTM D790 |
| Flexural Strength | 9580 psi | 66.1 MPa | ASTM D790 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact | | | ASTM D256A |
| 73°F (23°C), 0.125 in (3.18 mm), Compression Molded | 12 ft·lb/in | 610 J/m | |
| Drop Impact Resistance | | | ASTM D4226 |
| 73°F (23°C) [3] | 1.47 in·lb/mil | 65.4 J/cm | |
| 73°F (23°C) [4] | > 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) | 194 °F | 90.0 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) | 196 °F | 91.1 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 183 °F | 83.9 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) | 189 °F | 87.2 °C | |
| CLTE - Flow | 4.8E-5 in/in/°F | 8.6E-5 cm/cm/°C | ASTM D696 |
| **Additional Information** | **Typical Value (English)** | **Typical Value (SI)** | |
| Ease of Sizing | Acceptable | Acceptable | |

Recommend drying material for a minimum of 2 hours at 160 degrees Farenheit.
Physical properties measured on LA426 Black 2880.

## Processing Information

| Extrusion | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Melt Temperature | 345 to 380 °F | 174 to 193 °C |

**Notes**

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

[3] Procedure A, C.125 Dart

[4] Procedure B, C.125 Dart

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