# Maxxam™ VS-693.G001-8009

## Polypropylene

### Key Characteristics

| | |
|---|---|
| **Product Description** | |
| Good impact strength | |
| **General** | |
| Material Status | • Commercial: Active |
| Regional Availability | • Asia Pacific |
| Filler / Reinforcement | • Glass Fiber |
| Features | • Good Impact Resistance |
| Appearance | • Black |
| Processing Method | • Injection Molding |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.00 | 1.00 | ASTM D792 |
| Molding Shrinkage - Flow | 7.0E-3 to 0.010 in/in | 0.70 to 1.0 % | ASTM D955 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2] | 6960 psi | 48.0 MPa | ASTM D638 |
| Flexural Modulus [3] | 305000 psi | 2100 MPa | ASTM D790 |
| Flexural Strength [3] | 9430 psi | 65.0 MPa | ASTM D790 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.126 in (3.20 mm) | 6.6 ft·lb/in | 350 J/m | |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm) | 212 °F | 100 °C | |
| **Electrical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Surface Resistivity | 1.0E+15 ohms | 1.0E+15 ohms | ASTM D257 |
| Charge Decay Time - 12% RH, 5000 kV to 50 kV | 1000000027256 4200.0 sec | 1000000027256 4200.0 sec | MIL B-81705C |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Flame Rating (0.06 in (1.6 mm)) | HB | HB | UL 94 |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 176 to 185 °F | 80 to 85 °C |
| Drying Time | 2.0 to 3.0 hr | 2.0 to 3.0 hr |
| Rear Temperature | 392 to 464 °F | 200 to 240 °C |
| Middle Temperature | 392 to 464 °F | 200 to 240 °C |
| Front Temperature | 392 to 464 °F | 200 to 240 °C |
| Mold Temperature | 86 to 140 °F | 30 to 60 °C |

| Injection Notes |
| --- |
| Injection Pressure: MED-HIGH |
| Hold Pressure: MED-HIGH |
| Screw Speed: MODERATE |
| Back Pressure: LOW |

**Notes**

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

[2] 0.20 in/min (5.0 mm/min)

[3] 0.051 in/min (1.3 mm/min)

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