# Maxxam™ FR PP301 SHI BK268

## Polypropylene

### Key Characteristics

| | |
|---|---|
| **Product Description** | |
| Polypropylene compound, flame retardant | |
| **General** | |
| Material Status | • Commercial: Active |
| Regional Availability | • Asia Pacific |
| Features | • Flame Retardant |
| Appearance | • Black |
| Processing Method | • Injection Molding |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Specific Gravity | 1.00 | 1.00 | ASTM D792 |
| Molding Shrinkage | 1.2 to 2.0 % | 1.2 to 2.0 % | ASTM D955 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2] | 3340 psi | 23.0 MPa | ASTM D638 |
| Flexural Modulus [3] | 181000 psi | 1250 MPa | ASTM D790 |
| Flexural Strength [3] | 5080 psi | 35.0 MPa | ASTM D790 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact | | | ASTM D256A |
| 73°F (23°C), 0.126 in (3.20 mm), Injection Molded | 2.3 ft·lb/in | 130 J/m | |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.126 in (3.20 mm) | 212 °F | 100 °C | |
| **Electrical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Surface Resistivity | > 1.0E+12 ohms | > 1.0E+12 ohms | ASTM D257 |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Flame Rating (0.031 in (0.8 mm)) | V-0 | V-0 | Internal Method |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 176 to 185 °F | 80.0 to 85.0 °C |
| Drying Time | 4.0 to 6.0 hr | 4.0 to 6.0 hr |
| Processing (Melt) Temp | 392 to 464 °F | 200 to 240 °C |
| Mold Temperature | 86.0 to 140 °F | 30.0 to 60.0 °C |

**Injection Notes**

Injection Pressure: MED-HIGH

Hold Pressure: MED-HIGH

Screw Speed: MODERATE

Back Pressure: LOW

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### Notes

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

[2] 2.0 in/min (50 mm/min)

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

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