# Maxxam™ FR H6 H XF V0 Natural 70

## Polypropylene Homopolymer

### Key Characteristics

| Product Description | | | |
|---|---|---|---|
| Maxxam™ FR flame-retardant polyolefin compounds and masterbatches meet stringent flammability performance requirements defined by industry agencies, including Underwriters Laboratories UL 94 V-0, performance ratings. | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Europe | | |
| Features | • Flame Retardant<br>• Good Processability<br>• Good Stiffness | • Good Strength<br>• Halogen Free<br>• Heat Stabilized | • Medium Flow |
| Uses | • Consumer Applications<br>• Electrical/Electronic Applications | • General Purpose<br>• Household Goods | • Industrial Applications |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.08 g/cm³ | 1.08 g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0 g/10 min | 6.0 g/10 min | ISO 1133 |
| Molding Shrinkage [2] | 1.3 % | 1.3 % | Internal Method |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus | 334000 psi | 2300 MPa | ISO 527-2/1 |
| Tensile Stress | 3630 psi | 25.0 MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 4.0 % | 4.0 % | ISO 527-2/50 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact Strength | 0.95 ft·lb/in² | 2.0 kJ/m² | ISO 180/A |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Melting Temperature | 320 to 329 °F | 160 to 165 °C | Internal Method |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Flame Rating | | | |
| 0.031 in (0.8 mm) | V-2 | V-2 | UL 94 |
| 0.06 to 0.13 in (1.6 to 3.2 mm) | V-0 | V-0 | UL 94 |
| 0.08 in (2.0 mm) | 5VA | 5VA | Internal Method |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.08 in (2.0 mm) | 1760 °F | 960 °C | |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 1.0 to 2.0 hr | 1.0 to 2.0 hr |
| Rear Temperature | 347 to 365 °F | 175 to 185 °C |
| Middle Temperature | 356 to 374 °F | 180 to 190 °C |
| Front Temperature | 365 to 383 °F | 185 to 195 °C |

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Nozzle Temperature | 383 to 392 °F | 195 to 200 °C |
| Mold Temperature | 131 to 176 °F | 55 to 80 °C |

**Notes**

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

[2] ±0,2%

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