

Product Description

Maxxam[™] FR H6 GF/30 XF V0 BLACK T 70

Avient Corporation - Polypropylene Homopolymer

Wednesday, January 26, 2022

General Information

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 | | | |
|------------------------|---|--|--|
| Generic Name | Polypropylene Homopolymer (PP Homopolymer) | | |
| Material Status | Commercial: Active | | |
| Availability | • Europe | | |
| Filler / Reinforcement | Glass Fiber, 30% Filler by Weight | | |
| Features | Chemically Coupled Flame Retardant Good Stiffness Good Heat Resistance Good Impact Resistance Halogen Free | | |
| Uses | Automotive Applications Consumer Applications General Purpose Industrial Applications | | |
| Appearance | • Black | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |

| ASTM & ISO Properties ¹ | | | | | |
|---|---------------|----------|----------------|--|--|
| Physical | Nominal Value | Unit | Test Method | | |
| Density | 1.37 | g/cm³ | ISO 1183 | | |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.3 | g/10 min | ISO 1133 | | |
| Molding Shrinkage | | | ISO 294-4 | | |
| Across Flow : 23°C, 2.00 mm | 0.50 to 0.70 | % | | | |
| Flow : 23°C, 2.00 mm | 0.20 to 0.40 | % | | | |
| Mechanical | Nominal Value | Unit | Test Method | | |
| Tensile Modulus | 8200 | MPa | ISO 527-1/1 | | |
| Tensile Stress | 65.0 | MPa | ISO 527-2/5 | | |
| Tensile Strain (Break) | 3.0 | % | ISO 527-2/5 | | |
| Impact | Nominal Value | Unit | Test Method | | |
| Notched Izod Impact Strength | 7.5 | kJ/m² | ISO 180/A | | |
| Thermal | Nominal Value | Unit | | | |
| Melting Temperature | 160 to 165 | °C | | | |
| Electrical | Nominal Value | Unit | Test Method | | |
| Comparative Tracking Index | 600 | V | IEC 60112 | | |
| Flammability | Nominal Value | Unit | Test Method | | |
| Flame Rating (1.6 mm) | V-0 | | UL 94 | | |
| Glow Wire Flammability Index (2.0 mm) | 960 | °C | IEC 60695-2-12 | | |

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| Processing Information | | | | |
|------------------------|---------------|------|--|--|
| Injection | Nominal Value | Unit | | |
| Drying Temperature | 80 | °C | | |
| Drying Time | 1.0 to 2.0 | hr | | |
| Rear Temperature | 175 to 185 | °C | | |
| Middle Temperature | 180 to 190 | °C | | |
| Front Temperature | 185 to 195 | °C | | |
| Nozzle Temperature | 195 to 200 | °C | | |
| Mold Temperature | 25 to 55 | °C | | |

Notes

¹ Typical properties: these are not to be construed as specifications.

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