

# Maxxam™ FR H6 GF/30 XF V0 NC 70

Polypropylene Homopolymer  
PolyOne Corporation

Message:

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 Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,30% Filler by Weight   |                   |             |
| Features                                  | Flame Retardant                    |                   |             |
|                                           | Good Stiffness                     |                   |             |
|                                           | Good Strength                      |                   |             |
|                                           | Halogen Free                       |                   |             |
|                                           | Medium Flow                        |                   |             |
| Uses                                      | Consumer Applications              |                   |             |
|                                           | Electrical/Electronic Applications |                   |             |
|                                           | General Purpose                    |                   |             |
|                                           | Household Goods                    |                   |             |
|                                           | Industrial Applications            |                   |             |
| RoHS Compliance                           | RoHS Compliant                     |                   |             |
| Forms                                     | Pellets                            |                   |             |
| Processing Method                         | Injection Molding                  |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Density <sup>1</sup> (23°C)               | 1.32                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0                                | g/10 min          | ISO 1133    |
| Molding Shrinkage <sup>2</sup>            |                                    |                   | ISO 294-4   |
| Across Flow : 23°C                        | 0.50 to 0.90                       | %                 |             |
| Flow : 23°C                               | 0.20 to 0.50                       | %                 |             |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus (23°C, 4.00 mm)           | 8000                               | MPa               | ISO 527-2/1 |
| Tensile Stress (Break, 23°C, 4.00 mm)     | 90.0                               | MPa               | ISO 527-2/5 |
| Tensile Strain (Break, 23°C, 4.00 mm)     | 3.0                                | %                 | ISO 527-2/5 |
| Impact                                    | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)       | 9.5                                | kJ/m <sup>2</sup> | ISO 180     |
| Unnotched Izod Impact Strength (23°C)     | 32                                 | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                   | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature               |                                    |                   |             |
| 0.45 MPa, Unannealed                      | 162                                | °C                | ISO 75-2/B  |

|                                                  |                       |      |                |
|--------------------------------------------------|-----------------------|------|----------------|
| 1.8 MPa, Unannealed                              | 140                   | °C   | ISO 75-2/A     |
| Vicat Softening Temperature                      | 160                   | °C   | ISO 306        |
| 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                                     |                       |      | UL 94          |
| 0.800 mm                                         | V-2                   |      |                |
| 1.60 to 3.20 mm                                  | V-0                   |      |                |
| Glow Wire Flammability Index (1.00 to 3.00 mm)   | 960                   | °C   | IEC 60695-2-12 |
| Glow Wire Ignition Temperature (1.00 to 3.00 mm) | 775                   | °C   | IEC 60695-2-13 |
| Oxygen Index                                     | 41                    | %    | ISO 4589-2     |
| Injection                                        | Nominal Value         | Unit |                |
| Drying Temperature                               | 80.0                  | °C   |                |
| Drying Time                                      | 1.0 to 2.0            | hr   |                |
| Processing (Melt) Temp                           | 180 to 200            | °C   |                |
| NOTE                                             |                       |      |                |
| 1.                                               | ±0.03                 |      |                |
| 2.                                               | PolyOne Turkey method |      |                |

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