



Maxxam™ FR MF5420-0013 FR

Polypropylene

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-2, V-0, and 5VA performance ratings. In addition, many compounds in the Maxxam FR portfolio offer elevated Relative Thermal Index (RTI) ratings.

General

| | | | |
|-----------------------|--|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • North America | • South America |
| Features | • Flame Retardant | | |
| Forms | • Pellets | | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|-------------------------|-------------|
| Specific Gravity | 0.920 | 0.918 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg) | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ³ (Yield) | 1580 psi | 10.9 MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 90 % | 90 % | ASTM D638 |
| Flexural Modulus | 22000 psi | 152 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded | 7.0 ft·lb/in | 370 J/m | ASTM D256A |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm) | 106 °F | 41.0 °C | ASTM D648 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating | | | UL 94 |
| 0.0295 in (0.750 mm), All Color | HB | HB | |
| 0.0591 in (1.50 mm), All Color | HB | HB | |
| 0.118 in (3.00 mm), All Color | HB | HB | |

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 2.0 in/min (51 mm/min)

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