



Maxxam™ FR C10 H XF V0 GREY RAL7035 70

Polypropylene Copolymer

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 • Good Heat Resistance • Good Impact Resistance • Good Processability • Good Stiffness • Good Strength • Halogen Free • Heat Stabilized • High Flow |
| Uses | • Automotive Applications • Consumer Applications • Electrical/Electronic Applications • General Purpose • Household Goods • Industrial Applications |
| RoHS Compliance | • RoHS Compliant |
| Appearance | • Grey |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---------------------------|------------------------|-----------------|
| Density | 1.06 g/cm ³ | 1.06 g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 g/10 min | 10 g/10 min | ISO 1133 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus | 203000 psi | 1400 MPa | ISO 527-2/1 |
| Tensile Stress | 2180 psi | 15.0 MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 2.8 % | 2.8 % | ISO 527-2/50 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact Strength | 2.9 ft-lb/in ² | 6.0 kJ/m ² | ISO 180/1A |
| 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 | | | UL 94 |
| 0.06 to 0.13 in (1.6 to 3.2 mm) | V-0 | V-0 | |
| 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 hr | 1.0 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 |
| Nozzle Temperature | 374 to 392 °F | 190 to 200 °C |
| Mold Temperature | 77 to 131 °F | 25 to 55 °C |