



Maxxam™ FR C3 GF/30 V0 UV Natural 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
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant • Good Processability • Good Stiffness • Good Strength • UV Stabilized
Uses	• Consumer Applications • Electrical/Electronic Applications • General Purpose • Household Goods • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.55 g/cm ³	1.55 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.60 to 0.80 %	0.60 to 0.80 %	
Flow	0.30 to 0.50 %	0.30 to 0.50 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.05E+6 psi	7250 MPa	ISO 527-2/1
Tensile Stress	7980 psi	55.0 MPa	ISO 527-2/5
Tensile Strain (Break)	3.8 %	3.8 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	7.1 ft-lb/in ²	15 kJ/m ²	ISO 180
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 in (1.6 mm)	V-1	V-1	
0.13 in (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
Holding Pressure	5800 to 8700 psi	40.0 to 60.0 MPa
Back Pressure	1160 psi	8.00 MPa

Notes

¹ Typical values are not to be construed as specifications.



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