



Maxxam™ FR MF5220-0003 Black 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 • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• Flame Retardant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.43	1.43	ASTM D792
Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (Yield)	8000 psi	55.2 MPa	ASTM D638
Tensile Elongation ⁴ (Break)	6.0 %	6.0 %	ASTM D638
Flexural Modulus	700000 psi	4830 MPa	ASTM D790
Flexural Strength	13000 psi	89.6 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	2.2 ft·lb/in	120 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)	313 °F	156 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm), All Colors	V-0	V-0	
0.12 in (3.0 mm), All Colors	V-0	V-0	

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 0.20 in/min (5.1 mm/min)

⁴ Type I, 2.0 in/min (51 mm/min)