



Maxxam™ FR Grey X2 70

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-0, performance ratings.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	<ul style="list-style-type: none"> • Flame Retardant • Good Processability • Good Stiffness • Good Strength • Halogen Free • High Impact Resistance • Medium Flow
Uses	<ul style="list-style-type: none"> • Appliances • Consumer Applications • Electrical/Electronic Applications • General Purpose • 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	1.23 g/cm ³	1.23 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.90 %	0.50 to 0.90 %	
Flow	0.40 to 0.80 %	0.40 to 0.80 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-2/1
Tensile Stress	6530 psi	45.0 MPa	ISO 527-2/5
Tensile Strain (Yield)	3.5 %	3.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	5.2 ft·lb/in ²	11 kJ/m ²	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	302 °F	150 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	266 °F	130 °C	
Ball Pressure Test (257°F (125°C))	Pass	Pass	IEC 60695-10-2
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
--	• V-0	• V-0	
0.08 in (2.0 mm)	• 5VA	• 5VA	
0.08 in (2.0 mm)	5VA	5VA	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1760 °F	960 °C	

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Ignition Temperature 0.08 in (2.0 mm)	1430 °F	775 °C	IEC 60695-2-13

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	383 to 392 °F	195 to 200 °C
Mold Temperature	77 to 131 °F	25 to 55 °C

Notes

¹ Typical values are not to be construed as specifications.



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