

Maxxam™ FR H12 H-UV XF V0 Natural 70

Polypropylene Homopolymer

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 Processability	• Good Stiffness • Good Strength • Halogen Free	• Heat Stabilized • High Flow • UV Stabilized
Uses	• Automotive Applications • 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	1.01 g/cm ³	1.01 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	276000 psi	1900 MPa	ISO 527-1/1
Tensile Stress	3480 psi	24.0 MPa	ISO 527-2/50
Tensile Strain ² (Yield)	5.0 %	5.0 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	1.2 ft·lb/in ²	2.5 kJ/m ²	ISO 180/A
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 (0.13 in (3.2 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index 0.03 to 0.08 in (0.8 to 2.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature 0.08 in (2.0 mm)	1430 °F	775 °C	IEC 60695-2-13

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 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	131 to 176 °F	55 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)