



Maxxam™ FR H20 H XF V0 Black T 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 Stiffness	• Good Strength • Halogen Free • Heat Stabilized	• High Flow
Uses	• Appliances • Automotive Applications	• Consumer Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
Appearance	• Black		
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)	20 g/10 min	20 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.1 to 1.4 %	1.1 to 1.4 %	
Flow	1.1 to 1.4 %	1.1 to 1.4 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	348000 psi	2400 MPa	ISO 527-2/1
Tensile Stress	3480 psi	24.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5 %	3.5 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Unnotched Impact Strength	9.5 ft·lb/in ²	20 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	167 °F	75.0 °C	
Vicat Softening Temperature	302 °F	150 °C	ISO 306/A120
Ball Pressure Test			IEC 60695-10-2
257°F (125°C), 0.0787 in (2.00 mm)	Pass	Pass	
Melting Temperature	320 to 329 °F	160 to 165 °C	Internal Method
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in (1.0 mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.08 in (2.0 mm)	1430 °F	775 °C	

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	77 to 131 °F	25 to 55 °C

Notes

¹ Typical values are not to be construed as specifications.



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