



Maxxam™ FR C10 H XF V0 White

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
Features	• Flame Retardant • Good Heat Resistance • Good Impact Resistance • Good Processability • Good Stiffness • Good Strength • Halogen Free • Heat Stabilized • High Flow
Uses	• Automotive Applications • Consumer Applications • Electrical/Electronic Applications • General Purpose • Household Goods • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• White
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.07 g/cm ³	1.07 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.0 to 1.4 %	1.0 to 1.4 %	
Flow	0.80 to 1.2 %	0.80 to 1.2 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	261000 psi	1800 MPa	ISO 527-2/1
Tensile Stress	2320 psi	16.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0 %	3.0 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 180/1A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	266 °F	130 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	
Vicat Softening Temperature	284 °F	140 °C	ISO 306/A120
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)	1560 °F	850 °C	
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	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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