



Maxxam™ FR C1 XF V0 natural 70

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 Impact Resistance • Good Processability	• Good Stiffness • Good Strength • Halogen Free	• Low Flow
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 ²	1.06 g/cm ³	1.06 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	174000 psi	1200 MPa	ISO 527-2/1
Tensile Stress	2610 psi	18.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	> 230 %	> 230 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	6.7 ft-lb/in ²	14 kJ/m ²	ISO 180/1A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	266 °F	130 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	ISO 75-2/A
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	575 V	575 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

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

Injection	Typical Value (English)	Typical Value (SI)
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.

² ± 0.02



Beyond Polymers.

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