

Maxxam™ FR C1 H EP V2 Natural

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-2, performance ratings.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Flame Retardant • Good Heat Resistance • Heat Stabilized • High Impact Resistance • Low Flow
Uses	• Automotive Applications • Consumer Applications • Electrical/Electronic Applications • General Purpose • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 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	116000 psi	800 MPa	ISO 527-1/1
Tensile Stress	2900 psi	20.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	> 10 %	> 10 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	25 ft-lb/in ²	52 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	ISO 75-2/A
Vicat Softening Temperature	275 °F	135 °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-2	V-2	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12

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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	131 to 176 °F	55 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

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