



Maxxam™ FR PE V0 NATURAL 70

High Density Polyethylene

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, V-0, and 5VA performance ratings. In addition, many compounds in the Maxxam FR portfolio offer elevated Relative Thermal Index (RTI) ratings.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15 g/10 min	15 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	43500 psi	300 MPa	ISO 527-2/1
Tensile Stress (73°F (23°C))	1230 psi	8.50 MPa	ISO 527-2/50
Tensile Strain ² (Yield, 73°F (23°C))	12 %	12 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 180
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm), NC)	V-0	V-0	UL 94
Glow Wire Ignition Temperature 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	329 to 347 °F	165 to 175 °C
Middle Temperature	338 to 356 °F	170 to 180 °C
Front Temperature	347 to 365 °F	175 to 185 °C
Nozzle Temperature	365 to 383 °F	185 to 195 °C
Mold Temperature	68 to 104 °F	20 to 40 °C

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)