



Maxxam™ FR PE 112 Natural RoHS

Low 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	• North America
Features	• Flame Retardant
Appearance	• Natural Color
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.970	0.970	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (Yield)	1500 psi	10.3 MPa	ASTM D638
Tensile Elongation ³ (Break)	80 %	80 %	ASTM D638
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.6 mm), NC	V-2	V-2	
0.12 in (3.0 mm), NC	V-2	V-2	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	100 °F	38 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	360 to 390 °F	182 to 199 °C
Middle Temperature	370 to 400 °F	188 to 204 °C
Front Temperature	390 to 410 °F	199 to 210 °C
Nozzle Temperature	400 to 425 °F	204 to 218 °C
Mold Temperature	60 to 120 °F	16 to 49 °C

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 2.0 in/min (51 mm/min)