



Maxxam™ FR PE CONC 1 NAT

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	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.58	1.58	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	2.0 to 5.0 g/10 min	2.0 to 5.0 g/10 min	ASTM D1238

Additional Information

When this concentrate is letdown at the proper ratio the resulting materials can achieve flame retardancy equivalent to the requirements of the UL-94 V-2 or VTM-2. BFD IX-1 and NFPA 701 performance criteria are achievable using 8% PE CONC 1 in LDPE film @ 4-8 mil film. V-2 performance criteria is achievable in PE @ 15-30% in thicknesses $\geq$ 1.5mm.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	100 °F	37.8 °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	60.0 to 120 °F	15.6 to 48.9 °C

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

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