Maxxam™ FR PO Conc 62

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
Density / Specific Gravity	1.67	1.67	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (190°C/2.16 kg)	2.7 g/10 min	2.7 g/10 min	ASTM D1238

Additional Information
MAXXAM FR PO Concentrate 62 is designated to impart good flame retardancy and UV stbility to low and high density polyethylene. Because there are so many varieties of polyethylene, it is difficult to predict the let-down ratio required to meet the specific flammability standards. For starting point formulations we would suggest:4-7 parts by weight of Low Density Polyethylene-,5 parts by weight of High Density Polyethylene-to 1 part of Concentrate 62. 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 preformance criteria achievable using 8% PO CONC 62 in LDPE film @ 4-8 mil film / V-2 preformance criteria achievable in PE @ 15-30% in thickness >/= 1.5mm. The effects on the physicals should be minimal.

Notes

[1] Typical values are not to be construed as specifications.

[2] Procedure A