

Graf-M™ Masterbatches for Fire Retardant Foams & Thermoplastics

TECHNICAL DATA SHEET 617

Product Overview

Graf-M™ fire-retardant (FR) masterbatches are used in the building and construction, transportation, automotive and bedding industries in the manufacture of polyolefin foams and thermoplastics.

Four standard grades are available using an LDPE carrier and 50wt% expandable graphite loading with <0.2% moisture content. The onset temperature and particle size can be varied according to the table below. The nomenclature is Graf-M™ FR (resin type) (Onset Temperature (°C)-Mesh Size)

Typical Properties

Grade	FR Onset Temperature °C	FR Particle Size (Mesh/Micron)	Melt Flow Index g/10 min*
Graf-M™ FR (200-100)	200	100/150	6.3 (190°C/2.16kg)
Graf-M™ FR (210-200)	210	200/80	7.9 (190°C/2.16kg)
Graf-M™ FR (250-50)	250	50/300	3.7 (190°C/2.16kg)
Graf-M™ FR (280-50)	280	50/300	4.4 (190°C/2.16kg)

*Melt Flow Index is measured using ASTM D1238

A masterbatch FR grade with a PA6 nylon carrier is under development for use with high temperature thermoplastics, primarily with the 280°C onset temperature expandable graphite.

See TDS 226 for information on the GrafGuard® Expandable Graphite materials.

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