

Manufacturing Insight EFR-1FM Enhanced Fire Retardant Additive

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer

Material Notes:

EFR-1FM is ideal for incorporation into reinforced (carbon fiber, Kevlar fiber, glass fiber) thermoset resin systems, including coatings and foams, potting compounds, fiberglass reinforced structures as well as electronic laminates and other similar applications. EFR-1FM has been proven especially successful in epoxy resin systems, but also functions well in acrylic, vinyl acetate, urethane and PVC resin systems. When blended into a resin system, EFR-1FM will react to heat and/or flame by foaming and forming a thick, high yield char barrier. The char barrier will extinguish fire and prevent further flame spread. Additionally, the char foam insulates and protects the coated substrate from heat and fire damage. EFR-1FM is halogen-free, contains no PBDEs, PBBs or other brominated compounds and does not evolve the highly toxic and corrosive gasses associated with many other fire retardants. EFR-1FM enhanced fire retardant additive is a RoHS/WEEE compliant material. EFR-1FM functions at loading levels in the range of 10%-20% by weight. Flame spread and smoke developed values (ASTM E-84) are typically 10/10 and under and are in compliance with UL 94VO, IMO MSC.41(64) and FAR 25.853

Order this product through the following link:

http://www.lookpolymers.com/polymer_Manufacturing-Insight-EFR-1FM-Enhanced-Fire-Retardant-Additive.php

Physical Properties	Metric	English	Comments
Solubility in Water	<= 1.0 %	<= 1.0 %	At 170Â°F
Particle Size	3.0 - 5.0 Âµm	3.0 - 5.0 Âµm	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	

Descriptive Properties	Value	Comments
Appearance	Very fine free flowing white powder	
Char Activation Temp	300Â°C	
Char Forming Efficiency	99% Minimum	
Purity	98% Minimum	

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