

Manufacturing Insight EFR-1 Enhanced Fire Retardant Additive

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

Material Notes:

EFR-1 is ideal for incorporation into thermoset coatings, foams and potting compounds as well as electronic laminates and other similar applications, primarily epoxies. When blended into an epoxy resin system, EFR-1 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-1 is halogen-free, contains no metals, PDBEs, PBBs or other brominated compounds and does not evolve the highly toxic and corrosive gasses associated with many other fire retardants. EFR-1 is a RoHS/WEEE compliant material. EFR-1 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 94V0, MSC.41(64) and FAR 25.853.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Solubility in Water	<= 1.0 %	<= 1.0 %	At 170Â°F
Particle Mesh Size	325 Mesh	325 Mesh	100% through

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

Descriptive Properties	Value	Comments
Appearance	Very fine free flowing white powder	
Char Forming Efficiency	99% Minimum	
Purity	98% Minimum	

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