



# POLYFR<sup>®</sup> 201-2

## FLAME RETARDANT CONCENTRATE

### DATA SHEET

#### PolyFR<sup>®</sup> 201-2 FLAME RETARDANT CONCENTRATE (Pellet)

##### Product Description

PolyFR<sup>®</sup> 201-2 is a highly loaded non-halogen flame retardant concentrate pellet designed for ease of use in polyethylene resin compounding and molding processes where FR levels can be metered in to meet various flame retardant standards for the product. The concentrate incorporates our high performance JJAZZ<sup>®</sup> intumescent flame retardant system in the smallest particle size for thin-walled applications.

PolyFR<sup>®</sup> 201-2 utilizes a prime 20 melt LLDPE as its binder resin for ease of processing and incorporating into a variety of polyethylene resins in final compounding and molding applications. It is recommended at loading levels from 35-50% depending on the resin systems, material thickness, equipment, formulation additives and final flame retardancy requirements. It is recyclable.

##### Technical Data

Physical Properties	Typical Values		Test Method
	English	SI	
Product Description	Free Flowing White Pellets		Visual
Specific Gravity	1.139	1.139	ASTM D792
Melt Flow Rate (g/10 min)	.293	.293	ASTM D1238

##### Thermal Properties

Flammability (50% loading)**	V0 @ 1/16 in.	V0 @ 1.6mm	UL-94
Bloom	No	No	Visual
Brittleness Temperature	-63 °F	-53 °C	ASTM D746
Corrosive Gas in Smoke	No	No	ASTM 1354

\*\* Flammability testing conducted using PolyFR<sup>®</sup> 201-2 in 7 melt LDPE resin.



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### Injection Molding Process

Temperature profiles and settings typical for polyethylene injection molding should be used.

As with many non-halogen flame retardants, PolyFR<sup>®</sup> 201-2 should be kept within recommended temperature ranges to avoid overheating. The melt temperature of the compound should never exceed 205 C, and preferably be kept within 185-195 C range. For more detailed processing information, please see Poly FR<sup>®</sup> injection molding processing guidelines.

Melt Temperature	365-383 °F	185-195 °C
Drying	2-4 hrs @ 221 °F	2-4 hrs @ 105°C

### Health and Safety Information

Product health and safety information may be obtained from the Material Safety Data Sheet (MSDS). For a copy, please call 440-354-3919. Before using any product, a customer is advised to review the MSDS of a respective product.

PolyFR<sup>®</sup> 201-2 does not contain halogens, heavy metals or phthalates.

For more information or samples call:  
1-877-JJI-FAQS (877-554-3277)  
OR visit us online: [www.JJI-Technologies.com](http://www.JJI-Technologies.com)