



POLYFR[®] 200

FLAME RETARDANT CONCENTRATE

DATA SHEET

PolyFR[®] 200 FLAME RETARDANT CONCENTRATE (Pellet)

Product Description

PolyFR[®] 200 is a highly loaded non-halogen flame retardant concentrate pellet designed for ease of use in polypropylene product 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[®] intumescent flame retardant system. PolyFR[®] 200 utilizes a prime 20 melt polypropylene as its binder resin to provide good balance of properties when blended with a variety of other polypropylene 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	1.185	1.185	ASTM D792
Melt Flow Rate (g/10 min)	.490	.490	ASTM D1238
Thermal Properties			
Flammability (40% 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[®]200 in 7 melt copolymer PP and 20 melt homopolymer PP resins.



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Injection Molding Process

Temperature profiles and settings typical for polypropylene injection molding should be used. As with many non-halogen flame retardants, PolyFR[®]200 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 PolyFR[®] 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[®]200 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