

AuroraGuard™ FFD0050

Aurora Material Solutions, LLC - Specialty Polystyrene

General Information

Product Description

EnFoam® FFD0050 is a high temperature styrenic masterbatch of an endothermic chemical nucleating and blowing agent for the creation of a fine foam structure in thermoplastic injection molding and extrusion applications. The blowing agent is provided in a pellet form which improves foaming performance, eases material handling and extends shelf life. This product is recommended for use in engineering thermoplastics such as Nylon, PC and TPO.

Features and Benefits

- Creates a standard closed-cell foam structure
- Improves melt flow & dispersion in thermoplastics
- Improves melt strength
- In-line painable
- Increases extrusion output rate
- FDA compliant – safe for food contact
- Moisture scavengers added
- Improves impact
- Improves flex and elongation and reduces brittleness
- Improves cycle time in injection molding
- Achieves significant weight reduction
- Helps eliminate sink marks and reduces part warpage
- Enhances surface appearance
- pH balanced and buffered formula
- Improves process economics

Formerly known as EnFoam® FFD0050

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Uses	• Foam	• Masterbatch	
Agency Ratings	• FDA		
Appearance	• Off-White		
Forms	• Pellets		

Properties ¹

Additional Information

Characteristics: Endothermic decomposition

Total Gas Evolution: 75 ± 20 ml/gm

Appearance: Off white pellets

Bulk Density: 0.65 ± 0.10 gm/cm³

Decomposition Temp: Approximately 360°F (182°C) with full decomposition at 600°F (316°C)

Recommended Loading: 1.0 to 4.0%

Weight Reduction: 10 to 50% (approximately and corresponding to recommended loading range)

