



Viton™ FreeFlow™ 10

Fluoroelastomers

Technical Information

Introduction

Viton™ FreeFlow™ 10 is a fluoroelastomer additive in pellet form. It can be added to high density polyethylene (HDPE) and linear low density polyethylene (LLDPE).

Advantages

- Process improvements in all types of polyolefins including HDPE, low density polyethylene (LDPE), and LLDPE
- Elimination or minimization of surface imperfections (e.g., melt fracture)
- Reduction of die pressure, power requirements, and temperature
- Increased output (at constant die pressure and temperature)
- Improved properties when narrow dies are used in place of wide dies to reduce orientation

Formulation Guidelines

To assist in resin formulation, the following can be used as a general guide:

Elimination of Sharkskin Melt Fracture, ppm	
In standard film resins	400–800
In heavily filled or pigmented film	800–1,400
Reduction of Die Buildup, ppm	100–250

Levels are parts per million Viton™ FreeFlow™ 10

These numbers are intended to be starting points for formulation. The actual level required will depend on a multitude of factors.

Typical Physical Properties

Appearance	Silver gray to pale amber free-flowing pellets
Packaging	25-kg boxes
Shelf Life, yr	4*

*Normal storage conditions—dry, unopened, temperature below 27 °C (80 °F)

Safety and Handling

Viton™ FreeFlow™ 10 is considered a safe material to handle. It is stable at the temperatures at which polyolefins are formulated and processed. However, prior to the use of Viton™ FreeFlow™ 10 in polyolefins, review the Safety Data Sheet (SDS) and follow the recommendations in the Chemours technical bulletin, "Guide for Concentrate Preparation and Handling of Viton™ FreeFlow™ PPAs."



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For more information, visit Viton.com

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