



# Viton™ FreeFlow™ RC

## Fluoroelastomers

## Technical Information

### Description

Viton™ FreeFlow™ RC is a processing additive for narrow molecular weight LLDPE. This material will eliminate melt fracture, lower extrusion pressure, and reduce extrusion torque and die buildup.

Viton™ FreeFlow™ RC combines a lubricant to accelerate die conditioning with the die cleaning properties of Viton™ FreeFlow™ SC. This combination provides a highly efficient processing additive when rapid die conditioning is required.

Viton™ FreeFlow™ RC also incorporates improved chemistry to reduce interactions with other formulation ingredients.

Due to the low lubricant level, no effects on surface properties of the finished products are expected.

### Advantages

- Improved rates of conditioning when starting up new formulations on clean dies or purged systems
- Improved additive efficiency, particularly on lines where frequent formula changes are made or in formulas containing multiple additives
- Extended running time between die cleanings
- Improved performance in combined masterbatches with pigments
- Improved economics
- Approved for food contact and potable water applications
- Simplified analytical procedures for quality control

### 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	400–1,500
In heavily filled or pigmented film	1,000–1,800
Reduction of Die Buildup, ppm	100–400

Levels are parts per million Viton™ FreeFlow™ RC

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	White, free-flowing powder
Packaging	25-kg carton
Specific Gravity	1.09 ± 0.03
Shelf Life, yr	4*

\*Normal storage conditions—4 years, dry, unopened, temperature below 27 °C (80 °F)

### Safety and Handling

Viton™ FreeFlow™ RC 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™ RC in polyolefins, review the Safety Data Sheet (SDS) and follow the recommendations in Chemours technical bulletin, "Guide for Concentrate Preparation and Handling of Viton™ FreeFlow™ PPAs."



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**For more information, visit [Viton.com](http://Viton.com)**

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