

Fluoroguard™

Polymer Additive

Compounding and Processing

Technical Information



Fluoroguard™ Compounding

Fluoroguard™ is incorporated into the polymer matrix by using conventional melt compounding equipment. Fluoroguard™ can be processed at temperatures as high as 300 °C (572 °F), because of its excellent thermal stability and low volatility. The recommended loading of Fluoroguard™ is 0.1–1%, depending on the base polymer matrix and final performance requirements. To realize efficient Fluoroguard™ incorporation, a twin-screw extruder with liquid additive feeding or injection capability is most suitable for compounding this additive with thermoplastic polymers. The processing equipment should be cleaned and purged properly with recommended purging compound, followed by base polymer/Fluoroguard™ to ensure accurate loading. A Fluoroguard™ masterbatch

(<10% Fluoroguard™) can also be prepared and used in polymer compound formulations.

Polymer/Fluoroguard™ Compound Processing

Compounds containing Fluoroguard™ can be processed in conventional thermoplastic processing equipment. Before processing polymer/Fluoroguard™ compounds, the equipment should be cleaned thoroughly and purged, followed by purging with polymer/Fluoroguard™ compounds. Sufficient volume (at least 2-barrel volume of material) should be discarded to reduce the contamination of the final product by previous material processed in the equipment and also for priming equipment with Fluoroguard™. The discarded volume will vary, depending on a particular extruder or injection molding operation. The optimized volume should be determined as per customer's requirement. Please review SDS and SPI safety and operation guide for the processing operation (e.g., injection molding and extrusion).

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For more information, visit www.fluoroguard.com

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