

Technical Data Sheet

3M™ Polymer Processing Additive HX 9551

General Description

A free-flowing, hydrocarbon-based processing additive used in plastic extrusion processes to help customers improve both product quality and production efficiency for a variety of extruded plastic products.

The 3M™ Polymer Processing Additive (PPA) HX 9551 was developed to work with high molecular weight polyolefins such as linear low-density polyethylene (LLDPE), metallocene linear low-density polyethylene (mLLDPE) and high-density polyethylene (HDPE).

Product Features

Some of the many ways customers may benefit from the use of 3M™ PPA HX 9551 during polyolefin processing:

- Eliminate melt fracture
- Reduce extrusion pressure
- Reduce die buildup
- Reduce energy consumption
- Improve optical properties such as haze, clarity, and gloss
- Ideal for use in polyolefin resins containing antiblocking agents, pigments and other inorganic additives

Performance results may vary based on application, processing, and other production conditions.



Physical Properties (Not for specification purposes)

Property	3M™ Polymer Processing Additive HX 9551
Form	Free-flowing Granular
Color	Off-white
Active Ingredients	99%
Additives	1%
Particle Size	Less than 10 Mesh
Bulk Density	41 lb/ft ³ (0.7 g/cm ³)
Typical Use Levels	300 – 1000 ppm

Product Information

3M™ PPA HX 9551 can be melt blended into the host resin during any of the following plastic processing steps. For important product information, please read and follow the 3M™ PPA HX 9551 Compounding and Extrusion Guidelines:

- Resin Producer:
 - Direct addition
 - Use a one-pack additive blend containing 3M™ PPA HX 9551 and let down at the appropriate level
 - Use a concentrate (masterbatch) containing 3M™ PPA HX 9551 and let down at the appropriate level
- Concentrate (Masterbatch) Producer:
 - 3M™ PPA HX 9551 Compounding and Extrusion Guidelines
- End User:
 - Source resin containing 3M™ PPA HX 9551
 - Source a concentrate (masterbatch) containing 2%-8% 3M™ PPA HX 9551 and let down at the appropriate level

Shelf Life, Storage, and Handling

3M™ PPA HX 9551 has a shelf life of 1 year from the date of manufacture. Store in a clean, cool, dry environment at temperatures below 27°C (80°F). Please refer to the Safety Data Sheet for additional information.

Product Safety

To avoid potential hazards associated with the processing and use of this material, read and follow all information and documents referred to herein, including:

- Product Label
- Safety Data Sheet
- Regulatory Status and Conditions of Use

Also follow directions from suppliers of other ingredients you intend to use in conjunction with 3M™ PPA HX 9551.

Regulatory Information

This product has been evaluated for certain food contact applications subject to specific conditions of use. Regulatory status, conditions of use and laws vary by country. Contact 3M to receive current regulatory status and conditions of use information.

Contact Information

For more information, please contact your 3M representative.

For a copy of product documents referred to herein, please visit [3M.com](https://www.3m.com) or contact your 3M representative.

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