



# TECHNICAL DATA SHEET

Product Name

**ACTIVE PLUS™**

Product Type

**Processing Aids Masterbatch**

Product Grade

**PA17L**

## Product Description

Active Plus™ PA17L is a fluorinated processing aids masterbatch which design to use with polyolefin based polymer and also effective for many other applications which require a smoothen surface. PA17L creates lubricity coating on the metallic surfaces of processing equipment like barrel and die surfaces. The coating decreases the friction between molten resin and die wall then resulting in surface defects (shark skin and melt fracture elimination).

## Typical Application

- Masterbatch for blown film extrusion
- Masterbatch for cast film extrusion
- Masterbatch for cable extrusion

## Product Characteristics

- No effect to film surface chemistry/mechanical properties
- No effect to converting processes (heat sealing and printing process)
- Melt fracture elimination/Operating pressure reduction
- Die build-up alleviation/Gel formation during processing reduction

## International Compliance

- Food contact applicable (US FDA 21 CFR 175.1520)

## Physical Properties

Property	Test Method	Typical Value	Unit
PPA content	TPE Method	4.0	%
Melt index (190 °C, 2.16 kg)	ASTM D 1238	1	g/10 min
Density	ASTM D 792	0.93	g/cm <sup>3</sup>

**Note:** The given values are typical value measured on the product. Values herein are not to be constructed as a product specification.

## Processing Guidelines

To be effective, PA17L is suggested to use as the following steps

Production step: Tumble dry blending 0.5-1.0% of PA17L with your existing formulation and run along the production period.

The coating of PA17L can be removed the barrel wall by abrasive action of the melt. Thus, it is necessary to maintain the dosage of the PA17L in the formulation to achieve the smooth surface of the finished products.

Thai Polyethylene Co., Ltd.





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**Processing Aids Masterbatch**

## Product Available Form

- Yellowish white pellet

## Product Packaging

- 25 kg loose bag

## Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

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