



## TECHNICAL DATA SHEET (Provisional)

Product Type

**Processing Aids Masterbatch**

Product Name

**ACTIVE PLUS™**

Product Grade

**PA18L (PFAS free)**

### Product Description

Active Plus™ PA18 L (PFAS free) is a non - fluorinated processing aids masterbatch (PFAS free) which design to use with polyolefin based polymer and also effective for many other applications which require a smoothen surface. PA18L (PFAS free) 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)
- Under the upcoming Packaging and Packaging Waste Regulation (PPWR)

### Physical Properties

| Property                     | Test Method | Typical Value | Unit              |
|------------------------------|-------------|---------------|-------------------|
| PPA content                  | TPE Method  | 18.0          | %                 |
| Melt index (190 °C, 2.16 kg) | ASTM D 1238 | 2             | g/10 min          |
| Density                      | ASTM D 792  | 0.94          | 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, PA18L (PFAS free) is suggested to use as the following steps

Production step: Tumble dry blending 0.5-2.0% of PA18L (PFAS free) with your existing formulation and run along the production period.

The coating of PA18L (PFAS free) can be removed the barrel wall by abrasive action of the melt. Thus, it is necessary to maintain the dosage of the PA18L (PFAS free) in the formulation to achieve the smooth surface of the finished products.

### Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products contact your SCG Chemicals technical service at the address or telephone number as specified below.

**Thai Polyethylene Co., Ltd.**

1 Siam Cement Road, Bangsue, Bangkok, 10800 Thailand

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### 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 odor generation and color 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

### Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your technical service.

### Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Datasheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

### Related Documents

- The latest version of this document will be available at our website, [www.scgchemicals.com](http://www.scgchemicals.com), or can be obtained from the technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - Material Safety Datasheet
  - Statement on compliance to food contact regulations

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### Disclaimer

- The Applications specified herein is for reference only.
- It is customer's responsibilities to inspect and test the product for suitability of the customer's own use and purpose. The customer is responsible for appropriate, safe, legal use, processing and handling of the product.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. We however do not assume any liability whatsoever for the accuracy and completeness of the information contained herein.
- We make no warranties which extend beyond the description herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- No liability can be accepted in respect of the use of the product in conjunction with other materials. The information contained herein relates exclusively to the product when it is not used in conjunction with any third party's materials.