

## PPA DA-310ST

### Characteristics

Daikin Industries, Ltd., a world leader in the manufacturer of fluoro-elastomers, has developed a new polymer processing additive, Daikin PPA DA-310ST, for thermoplastic resins (LLDPE, LDPE, HDPE, PP, etc.). DAIKIN PPA DA-310ST helps you boost your line speed as it eliminates melt fracture, reduces die-build up and die pressure. Available as a fine white powder made of modified fluoro-elastomer, Daikin PPA DA-310ST lubricates the inside of your die wall decreasing friction and delivering a higher production rate.

### Properties\*

Foam	White powder
Active Ingredient	90% (Fluoropolymer)
Partitioning Agent	10% (inorganic)
Particle Size	Avg. 450 micron
Bulk Density	1.0g/cm <sup>3</sup>

\*Typical properties are not suitable for specification purposes.

### Benefits/Features

- Eliminates melt fracture and die-build up.
- Reduces die pressure and extrusion temperature.
- Increases output. Delivers reduced coating time.

### Guideline for Use (General LLDPE Film Extrusion)

Typical levels of use of Daikin PPA DA-310ST are 100 to 1000 ppm in PE during film extrusion (500 ppm for standard use). To achieve this low level of concentration, production of a masterbatch is required. It is recommended that the masterbatch contain between 2 - 5% of Daikin PPA DA-310ST (preferably 5%). When a masterbatch containing 5% is used, the level of PPA masterbatch in PE is about 1% delivering a final 500ppm to the end product.

---

## Food Contact

Daikin PPA DA-310ST complies with United States FDA regulation 21 CFR 177.1520 when used at levels not to exceed 0.21%. The polyolefins containing Daikin PPA DA-310ST may be used only for conditions A through H, in table 2, 21 CFR 176.170. Daikin PPA DA-310ST complies with Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food and with Commission Regulation (EU) No 10/2011 of 14 January, 2011 on plastic materials and articles intended to come into contact with food. It is the sole responsibility of the user to determine whether the use of Daikin PPA DA-310ST in a particular application is suitable and complies with applicable laws and regulations.

## Handling/Safety

Although Daikin PPA DA-310ST presents no safety hazard under normal processing conditions; please refer to the Safety Data Sheet to avoid potential hazards before beginning processing operations.

## Storage

Please refer to the Safety Data Sheet for storage information and always keep Daikin PPA DA-310ST in a dry place at temperatures below 27°C (80°F) to avoid agglomeration.

## Packaging

Net 20kg.  
Carton box (dimension 341mm x 304mm x 314mm)

DAIKIN CHEMICAL EUROPE GmbH  
Immermann Str., 65D  
40210 Dusseldorf, Germany  
Phone : +49-211-1792-2528  
Facsimile : +49-211-1792-2529  
[www.daikinchem.de](http://www.daikinchem.de)

DAIKIN INDUSTRIES, LTD.  
Umeda Center Bldg.,  
2-4-12, Nakazaki-Nishi, Kita-ku,  
Osaka 530-8323, Japan.  
Phone : +81-6-6373-4346  
Facsimile : +81-6-6373-4390  
[www.daikin.co.jp/chm](http://www.daikin.co.jp/chm)

DAIKIN AMERICA INC.  
20 Olympic Drive  
Orangeburg, NY 10962  
Phone: 845-365-9500  
FAX: 845-365-9515  
[www.daikin-america.com](http://www.daikin-america.com)

DAIKIN CHEMICAL FRANCE  
S.A.S  
Chemin de la Lône BP 52  
69492 Pierre-Bénite Cedex France  
Phone : +33-4-7239-4930  
Facsimile : +33-4-7239-4939