

**DATA SHEET / SPECIFICATIONS  
PROCESS AID MASTERBATCH  
AID PE F5**

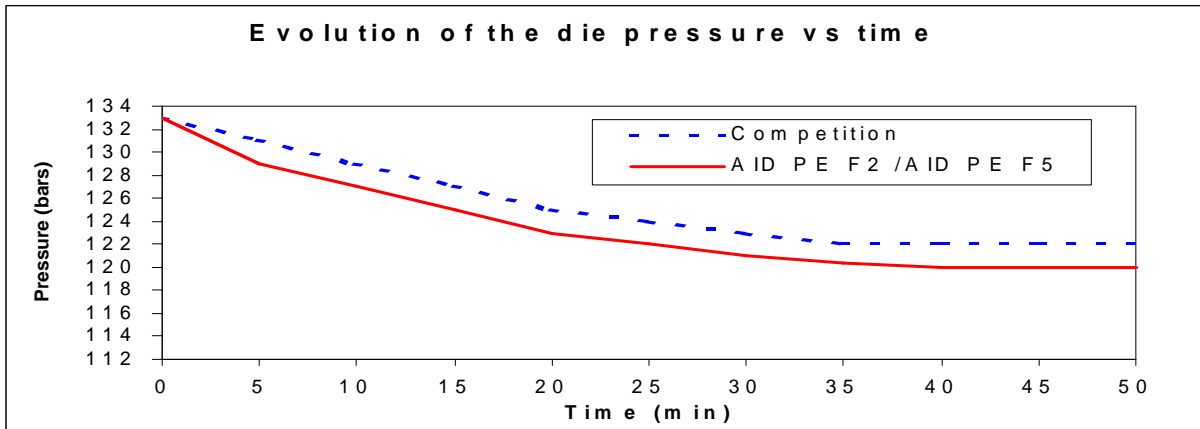
AID PE F5 is a masterbatch containing 5% fluorinated copolymer based in a LLDPE carrier. It is used in LLDPE film extrusion to reduce melt-fracture and sharkskin when extruding linear olefin polymers. AID PE F5 also gives the following properties : improved bubble stability, haze reduction, improved gloss and higher output levels.

**SPECIFICATIONS**

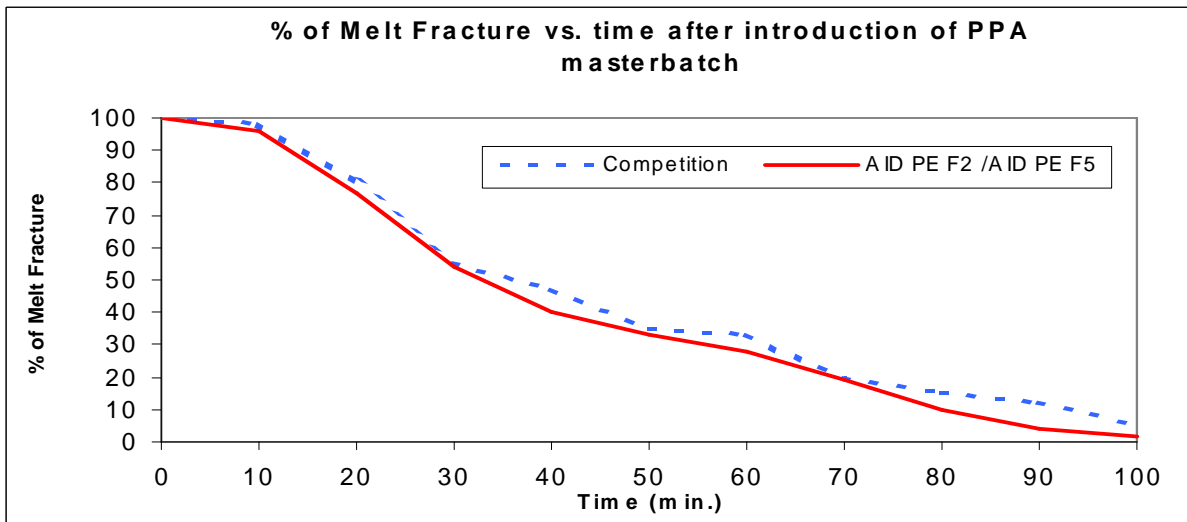
<i>Melt Index (190 °C / 2.16 kg)</i>	<i>2 -4</i>
<i>Fluoropolymer content</i>	<i>4,5 -5,5 %</i>

**ADDITIONAL TYPICAL PROPERTIES**

<i>Appearance</i>	<i>Milky-White granules</i>
<i>Volatiles (105°C / 1 h)</i>	<i>&lt; 1500 ppm</i>



These 2 graphs figure according to the results of lab tests with 500 ppm of additives " Processing Aid".



## **USAGE**

AID PE F5 works by modifying the interface between the polymer melt and the metal surfaces of the extruder barrel and die. The following is directions for start-up :

1/ the user must ensure all metal surfaces coming in contact with polymer are thoroughly cleaned so that they become coated with fluoropolymer.

2/ Start-off by adding 10% AID PE F5 and 90% base polymer to pre-condition the extruder with fluoropolymer.

3/ After 15 - 20 minutes adjust extruder to full operating output speed and reduce AID PE F5 to approx. 0.5 – 1.5%. Exact quantity depends on Machine, polymer type etc, however, polymer containing antiblock, pigments etc is more abrasive, so more AID PE F5 masterbatch is needed.

4/ Without a prolonged production interruption it should be possible to start-up without preconditioning the extruder.

5/ If the extruder has been cleaned with an abrasive purging compound, start-up should be as above.

AID PE F5 has a favourable effect on viscous molten polymers during extrusion and injection. It is also used in HDPE injection molding.

AID PE F5 is not recommended if temperatures > 240°C .

## **RECOMMENDED ADDITION RATES**

Use concentrations of AID PE F5 in LLDPE blown film are between 0,5 and 1,5%.

## **FOOD CONTACT STATUS**

FDA ( 21CFR 177.1520) regulations allow the use of AID PE F5 for films in contact with foodstuffs (maximum concentration of AID PE F5 authorized for contact with foodstuffs is 12%).

AID PE F5 meet the requirements of Regulation (EU) 10/2011 amended by Regulation (EU) 1183/2012.

## **PACKAGING**

Product is normally packed in 25 kg bags on 1375 kg shrink-wrapped pallets.

This product can be stored in dry area up to 2 years at 25°C for optimum performance.

*Edition 06/2014*