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**

| Melt Index (190 °C / 2.16 kg) | 2 - 4 |
| Fluoropolymer content | 4.5 - 5.5 % |

**ADDITIONAL TYPICAL PROPERTIES**

| Appearance | Milky-White granules |
| Volatiles (105°C / 1 h) | < 1500 ppm |

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

% of Melt Fracture vs. time after introduction of PPA masterbatch

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

% of Melt Fracture vs. time after introduction of PPA masterbatch
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%).

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.

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