BAEROLUB AID

Non-PFAS - Polymer Processing Aids

Fastest Time To Clear

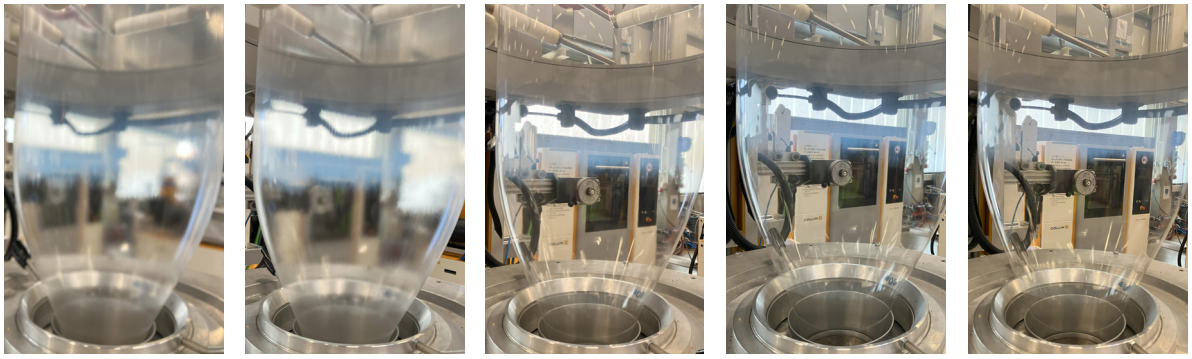
As regulatory pressures compel the plastics industry to move away from per- and polyfluoroalkyl substances (PFAS), manufacturers need alternative polymer processing aids (PPAs) that do not incorporate these forever chemicals.

BAEROLUB® AID* is a new family of PPAs formulated without intentionally adding PFAS, PEG or siloxane chemistry.
In addition to supporting current and future regulatory compliance and offering reliable global supply, these products deliver critical performance advantages compared to standard PPAs, including:

- Rapid clearing of melt fracture
- Reduced die build-up
- Won't interfere with anti-block and slip additives
- Excellent process control
- Easier transitions
- Designed for maximum global food contact compliance

How it works

High shear forces exerted on molten resin and adhesion to metal surfaces can induce melt fracture in the extruded polymer, causing an irregular, scaly texture ("shark skin") on the material's surface upon leaving the die. To avoid stress-induced surface defects, manufacturers add PPAs. However, processing aids that incorporate PFAS exist in an insoluble domain. In contrast, Baerolub AID products are soluble in the polymer matrix, resulting in good haze performance. The Baerolub AID formulation will also not interfere with anti-block or slip additives.



TIME 0 ----------> TIME END

*Patent Pending

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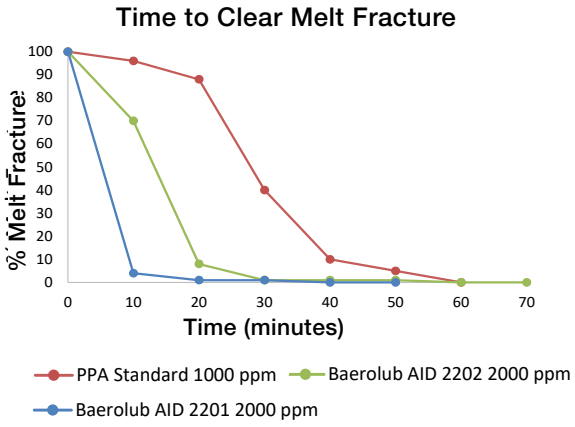
Choose from four grades

Legacy grades, proven success in a variety of applications: Baerolub AID 2201, Baerolub AID 2202
Newly developed to meet industry needs: Baerolub AID 2416, Baerolub AID 2417

Target applications and resins

Baerolub AID solutions, which are designed for maximum global food contact approvals, are well suited for all food packaging. Furthermore, they can be used in blown film, pipe, and wire & cable applications requiring a PPA. Additionally, Baerolub AID solutions are:

- Appropriate for metallocene and Ziegler-Natta (Z/N) linear low-density polyethylene (LLDPE), high molecular weight, high-density PE (HDPE) and polypropylene (PP)
- Avaliable as a customized preblends
- Supplied in a wide range of formats, including powder, pastilles, rods, prills and granules, for neat dosing
- Available as a masterbatch in multiple base resins



PRODUCT	TIME TO CLEAR (minutes)
PPA Standard @ 1000 ppm	45
Baerolub AID 2201 @ 2000 ppm	40
Baerolub AID 2202 @ 2000 ppm	50
Baerolub AID 2416 @ 2000 ppm	30
Baerolub AID 2417 @ 2000 ppm	50

BAEROLUB AID trials

Trials of the new Baerolub AID PPAs were conducted at Collin Lab and Pilot Solutions in Maitenbeth, Germany. These trials demonstrated faster time to clear versus a standard PPA formulated with PFAS.