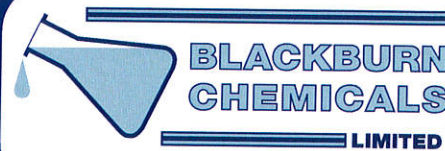


World Leaders in Foam Control



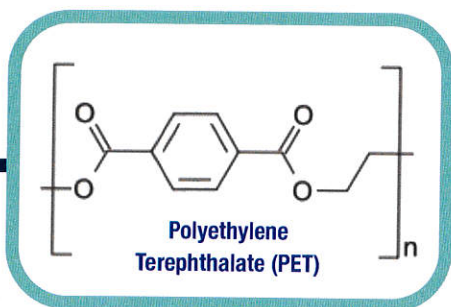
DISPELAIR®

DISPELAIR® DEFOAMERS FOR PLASTICS RECYCLING (PET)

PET is recycled to reuse the material in other applications and to reduce the amount of waste sent to landfill.



PET is used as a raw material for making packaging materials such as bottles and containers for packaging a wide range of food products and other consumer goods. Examples include soft drinks, alcoholic beverages, detergents, cosmetics, pharmaceutical products and edible oils. PET is one of the most common consumer plastics used.



The basic recycling process comprises;

- Plastic is sorted by resin type/colour
- Non-plastic items are removed
- PET is shredded/crushed
- PET is washed with surfactant/caustic to remove labels, adhesives and consumer product residues
- PET is rinsed, dried and melted/pelletized for distribution

Recycling plants vary in design but the basic principles are the same.

Foam issues occur in the washing stages of the process. Waste PET is passed through tanks of surfactant and caustic solution at elevated temperatures to remove dirt and adhesive residues. Agitation in the tanks leads to foam generation.

Foam can affect the overall efficiency of the process, increase water usage and cause false tank level readings.

Defoamer

Silicone based emulsion defoamers are very effective in the caustic washing process, offering excellent foam knockdown and dispersibility.

Blackburn Chemicals offer a range of products for PET recycling processing.

| Dispelair® Product Code | Appearance | Comments |
|----------------------------|----------------|---------------------------------------------------|
| SE101F | White emulsion | Meets requirements of FDA 173.340 |
| SE944 | White emulsion | Meets requirements of FDA 173.340 |
| SE81A | White emulsion | For non-food applications |
| WT831 | White emulsion | For use on persistent foam; non-food applications |
| BS905 | White emulsion | For use on persistent foam; non-food applications |

Recycled PET can be used in a variety of applications.

- Food grade packaging applications (food cartons/bottles/food trays)
- Non-food applications (plastic sheets/fabric fibres/carpet)

Depending on the customers' requirements the defoamer may need to meet certain FDA requirements if the PET is intended for use in food applications.

For further information or samples please contact:

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