

# DISPERPLAST-1018

Solvent-free wetting and dispersing additive for thermoplastics applications for the dispersion and stabilization of solids in masterbatches and for compounding.

## Product Data

### Composition

Copolymer with pigment affinic groups

### Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density: 600 kg/m<sup>3</sup>

Dropping point: ca. 194 °F

### Food Contact Legal Status

The additive is suitable for applications that come into contact with food. For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

### Storage and Transportation

To be stored and transported at a temperature below 40 °C (104 °F).

## Applications

### Thermoplastics

#### Special Features and Benefits

DISPERPLAST-1018 is a highly functionalized, polymer additive. It has been specially developed for optimum dispersion in conjunction with good throughput during the production of masterbatches. The additive has a low melting point of around 55-60 °C (131-140 °F) and is therefore capable of efficiently wetting pigments prior to the fusing of the polymer carrier. It absorbs onto the pigment surface, thereby generating a steric stabilization which facilitates the dispersion of agglomerates and prevents reagglomeration. DISPERPLAST-1018 is also suitable for compounding siliceous fillers (talc, wollastonite, mica) in PA, PET and PBT.

#### Recommended Use

DISPERPLAST-1018 is recommended for the dispersion of solids in PP, PE, PS, PA, ABS, PET and PBT.

## Recommended Levels

Amount of additive (as supplied) based upon solids:

|                                    |         |
|------------------------------------|---------|
| Inorganic pigments:                | 5-15 %  |
| Titanium dioxides:                 | 5-15 %  |
| Organic pigments:                  | 25-40 % |
| Carbon blacks:                     | 5-15 %  |
| Blowing agent:                     | 5 %     |
| Filler (talc, wollastonite, mica): | 5 %     |

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

## Incorporation and Processing Instructions

The additive can be premixed with the solids or with the polymer carrier. Do not exceed a temperature of 60 °C (140 °F).



Additive Guide



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