

## DISPERPLAST-1180

Low-volatile and solvent-free wetting and dispersing additive for filled and plasticizer-containing PVC dryblends.

### Product Data

#### Composition

Carboxylic acid derivatives with wetting properties

#### Typical Properties

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

Acid value: 32 mg KOH/g

Density (20 °C): 1.03 g/ml

### Applications

#### PVC Dry Blends

#### Special Features and Benefits

During the processing of PVC dry blends:

- Improved plastification
- Faster fusion time and gelling speed
- Better distribution of the melt
- Increased melt strength
- Higher filler content possible for given process conditions
- Reduction of the melt viscosity results in lower thermal stress of the melt
- Considerably increased melt index (MVR = melt volume rate)

Effect on the end product:

- Increased elongation at break
- Reduction in the tensile strength and thus, decrease in the plasticizer content possible
- Smoother surface (higher gloss) and therefore, improved lamination properties
- Reduction in the formulation costs possible by using more or coarser filler

#### Recommended Use

DISPERPLAST-1180 is recommended for use in filled and plasticizer-containing PVC dry blends for producing calendered and extruded PVC applications, e.g. LVT.

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### Recommended Levels

0.3-2 % additive (as supplied) based on the filler.

Optimal levels of DISPERPLAST-1180 are essentially determined by the type of filler and the particle size. The smaller the particle sizes, the higher the required dosage of additive.

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

Overdosage should be avoided.

### Incorporation and Processing Instructions

The additive can be added at any time during the dry blend production/compounding. Alternatively, it can be added directly to the solids, such as to the PVC, fillers, etc.



Additive Guide



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This issue replaces all previous versions – Printed in Germany