

DISPERPLAST-1150

Solvent-free wetting and dispersing additive for PVC- and thermoplastics applications to improve the dispersion and reduce the viscosity of filled and pigmented systems. Suitable for producing liquid color masterbatches and solid masterbatches.

Product data

Composition

Polymeric carboxylic acid ester

Typical properties

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

Density (20 °C):	1.01 g/cm ³
Flash point:	186 °C
Refractive index (20 °C):	1.459
Acid value:	99 mg KOH/g
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 60 months

At temperatures below 20 °C the product may become solid. In this case, warm to 30-60 °C and stir.

Moisture sensitive. Store dry. To be stored and transported at a temperature below 50 °C.

Applications

PVC plastisols

Special features and benefits

DISPERPLAST-1150 reduces the viscosity of pigmented and filled PVC plastisols. It is particularly recommended for inorganic pigments, zinc oxide and blowing agents (azodicarbonamide). The product enables a greater solids content, improves the color strength of the pigments and shortens the dispersion time. It also prevents any separation of the plasticizer. The tendency of settling is reduced.

Recommended levels

Amount of additive (as supplied) based on the solids:

Inorganic pigments:	1-3 %
Organic pigments:	5-7 %
Fillers:	1-3 %
Blowing agent:	1-2 %
Zinc oxide:	1-3 %

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive should be added to the liquid components prior to incorporating the solids. DISPERPLAST-1150 can be used in either a liquid, solid or partially solid form. The product efficiency is not influenced if it is carefully dispersed in the plasticizer.

Thermoplastics

Special features and benefits

DISPERPLAST-1150 adsorbs onto the pigment surface and generally enables a better processing and dispersion of the pigments. It is recommended for producing fatty acid-based liquid color masterbatches with inorganic pigments which are used to color thermoplastics (PE, PP, PET). In doing so, it significantly reduces the viscosity therefore enabling a greater pigmentation. The additive is also recommended in solid masterbatches for stabilizing inorganic pigments and effect pigments in PE, PP and PET. In these systems, it improves the torque build-up, the throughput, the viscosity (MVR) and the filter pressure value (FPV). DISPERPLAST-1150 can impart anti-static properties to compounded materials.

Recommended levels

Amount of additive (as supplied) based on the solids:

Inorganic pigments:	0.5-3 %
Titanium dioxide:	0.5-3 %
Effect pigments:	0.3-5 %

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

For the production of liquid color masterbatches, DISPERPLAST-1150 is slowly added to the carrier system whilst stirring. Only add the pigments once the additive has been uniformly distributed. For solid masterbatches, it is added to the solids or the polymer carrier before or during compounding.



Your local
contact

BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
info@byk.com
www.byk.com



Download
our app:
byk.com/app

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYPK®, OPTIBENT®, OPTIGEL®, PURABYK®, RECYCLOBYK®, RHEOBYK®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.