

# BYK-1161

Highly effective, plasticizer-free dispersing medium for solid dispersions for use in PVC plastisols. Particularly suited to inorganic pigments and fillers.

## Product Data

### Composition

Combination of surface-active substances

### Typical Properties

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

Acid value:	8 mg KOH/g
Density (20 °C):	0.89 g/ml
Refractive index (20 °C):	1.460
Non-volatile matter (10 min., 150 °C):	95 %
Flash point:	> 140 °C

### Food Contact Legal Status

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

Separation or turbidity may occur at temperatures below 0 °C. Warm to 20 °C and mix well. Do not exceed 50 °C.

## Applications

### PVC Plastisols

#### Special Features and Benefits

The plasticizer-free dispersing medium BYK-1161 contains monofunctional, deflocculating groups for wetting and stabilizing inorganic solids such as  $\text{CaCO}_3$ ,  $\text{TiO}_2$ ,  $\text{ZnO}$ , and iron oxide pigments. The achievable concentration of solids for inorganic fillers is generally between 40 and 85 %, with titanium dioxide between 60 and 85 %. The formulation of the solid dispersions with BYK-1161 presents the following advantages compared with standard systems:

- Greater concentration of solids with lower agglomeration
- Narrower particle size distribution
- Free from plasticizers
- Cost savings

## Incorporation and Processing Instructions

The solids are incorporated directly into the dispersing medium.

## Special Note

- An additional additivation with wetting and dispersing additives is possible at any time.
- If sedimentation or separation occurs in the formulation, this can generally be avoided by adding 0.2-1 % of BYK-410.



Additive Guide



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