

BYK-P 4100

Processing additive for filled, thermoplastic compounds as well as for PVC plastisols and PVC calender applications.

Product Data

Composition

Copolymer with acidic groups

Typical Properties

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

Acid value: 14 mg KOH/g

Density (20 °C): 0.99 g/ml

Food Contact Legal Status

The additive is suitable for applications with food contact. For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Applications

Thermoplastics

Special Features and Benefits

BYK-P 4100 is a surface-active processing additive for use in filled, thermoplastic compounds.

During compounding, the additive reduces the required torque. The output capacity and the melt volume rate (MVR) are increased. The tensile strength, E-modulus and notch impact strength are increased in the finished part. The printability is improved.

Recommended Use

Mineral fillers	<input checked="" type="checkbox"/>
Flame retardants	<input checked="" type="checkbox"/>
Wood plastic composites (WPC)	<input checked="" type="checkbox"/>
Glass fibers HMC	<input type="checkbox"/>

especially recommended recommended

Recommended Levels

0.25-2% additive (as supplied) based upon the filler.

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

Incorporation and Processing Instructions

Ideally, the additive is added at the same time as the liquids, and then the solids are incorporated. Post addition is also possible.

PVC applications

Special Features and Benefits

BYK-P 4100 is a surface-active processing additive for use in PVC plastisols and PVC calender applications.

PVC plastisols:

In PVC plastisols, the additive has very good release properties from gelling drums, release papers, flat screens and molds.

It also influences the cell structure of chemically blown foams and improves the resilience and increases the air permeability.

Only specific PVC types are suitable for open cell foams. An open cell structure can only be achieved if the formulation components and process parameters are coordinated to one another. The use of BYK-P 4100 can bring about an increased water uptake.

PVC calender applications:

In PVC calendar applications, the additive has very good release properties during the processing of soft, semi-rigid and rigid PVCs. The printability of the end product is also improved.

Recommended Levels

0.1-3 % additive (as supplied) based on the total formulation, depending on the desired effect.

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

Incorporation and Processing Instructions

Ideally, the additive is added at the same time as the liquids, and then the solids are incorporated. Post addition is also possible.



Additive Guide



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