

# BYK-P 4200

Processing additive for thermoplastics (particularly based on PE and PP) to reduce the odor and VOC emissions in the end product.

## Product Data

### Composition

Aqueous solution of polymeric, surface-active substances adsorbed onto a polypropylene carrier

### Typical Properties

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

Bulk density: 370 kg/m<sup>3</sup>  
MVR of the carrier (446 °F, 2.16 kg, ISO 1133): 2-3 cm<sup>3</sup>/10 min  
Melting point: 320 °F

### 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.

## Applications

### Thermoplastics

#### Special Features and Benefits

The addition of BYK-P 4200 during vacuum degassing reduces or even entirely removes the components of the compound that cause odor and emissions. The additive has no negative influence on the mechanical and optical properties of the mixture. It is simple to handle and no additional investment in machinery is required.

#### Recommended Use

The additive is particularly recommended for PE-based and PP-based thermoplastic compounds and also for ABS.

#### Recommended Levels

0.5-2 % additive (as supplied) based on the total formulation.

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

#### Incorporation and Processing Instructions

BYK-P 4200 should be added to the thermoplastic during or prior to compounding. For optimum performance of the additive, vacuum degassing at a minimum of 100 mbar is recommended. It should preferably be processed using only one degassing vent just before the end of the extruder.

## BYK-P 4200

Data Sheet  
Issue 07/2014



Additive Guide



**BYK USA Inc.**  
524 South Cherry Street  
P.O. Box 5670  
Wallingford, CT 06492  
USA  
Tel 203 265-2086  
Fax 203 284-9158

**cs.usa@byk.com**  
**www.byk.com**

ANTI-TERRA®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, DISPERBYK®, DISPERPLAST®, LACTIMON®, NANOBYK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. ACTAL®, ADJUST®, ADVITROL®, ASTRABÉN®, BENTOLITE®, CLAYTONE®, CLOISITE®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, LAPONITE®, MINERAL COLLOID®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PURE THIX®, RHEOCIN®, RHEOTIX®, RIC-SYN®, TIXOGEL®, and VISCOSEAL® are registered trademarks of BYK Additives. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera. SCONA® is a registered trademark of BYK Kometra.

The information and data stated herein, although in no way guaranteed, are based upon tests and reports considered to be reliable and are believed to be accurate. No warranty, either expressed or implied, is made or intended. Use by a customer should be based upon their own investigations and appraisals. Any recommendation should not be construed as an invitation to use a material in infringement of patents.  
This issue replaces all previous versions – Printed in the USA