

BYK-P 4102

Processing additive for thermoplastics (compounds and masterbatches based on PE and PP) to improve the dispersion of pigments and mineral fillers. Improves the throughput and reduces the viscosity and filter pressure value

Product Data

Composition

Low-emission combination of carboxylic acid derivatives with wetting agent properties

Typical Properties

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

Bulk density: 270 kg/m³

Dropping point: > 167 °F

Supplied as: Powder

Food Contact Legal Status

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

Storage and Transportation

Temperature sensitive. To be stored and transported at a temperature below 50 °C (122 °F).

Applications

Thermoplastics

Special Features and Benefits

BYK-P 4102 adsorbs on the surface of the fillers and pigments, therefore bringing about an optimum processing and dispersion during extrusion. It improves the torque build-up, throughput, viscosity (MVR), filter pressure value (FPV) and dispersion quality.

Recommended Use

The additive is particularly recommended for filled thermoplastic compounds and color masterbatches based on PE and PP, but also for ABS, PA and PVC.

Recommended Levels

Amount of additive (as supplied) based upon:

Mineral fillers: 0.25-2 %
Inorganic pigments: 3-15 %
Organic pigments: 10-30 %

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

Incorporation and Processing Instructions

The product can be added to the fillers, pigments or the polymer both during or prior to compounding.



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®, ASTRABEN®, 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