

BYK-MAX AS 4171

Granulated antistatic agent for the use in polypropylene to reduce the surface resistivity.

Product Data

Composition

Additive concentrate

Typical Properties

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

Bulk density: 550-625 kg/m³
Active substance: 30 % +/- 2 %
Supplied as: Off-white granulate

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Store in a cool, dry and well-ventilated location. The concentrate is not heat-sensitive but is sensitive to moisture.

Applications

Thermoplastics

Special Features and Benefits

BYK-MAX AS 4171 contains a synergistic mixture of highly concentrated anti-static additives. The highly effective mixture used in this product reduces the surface resistance of polypropylene. Immediately upon manufacture of the PP product, BYK-MAX AS 4171 displays an instant anti-static effect. The balanced ratio between rapid and controlled migrating anti-static additives not only offers a rapid anti-static effect but also long-lasting protection against dust attraction and other problems caused by electrostatic charge. At a dosage of 1 %, BYK-MAX AS 4171 reduces the surface resistance to less than 10¹¹ Ohm within 24 hours. It is characterized by outstanding demolding of the injection-molded products and good cost-effectiveness. BYK-MAX AS 4171 consists of non-adhesive granulates, it is dust-free as well as being safe and easy to handle.

BYK-MAX AS 4171

Data Sheet
Issue 09/2019

Recommended Use

Thermoformed and injection-molded PP	■
Food packaging	■
Films	■
Tapes	■
Yarn	■
Fibers	■
Household products	■

■ especially recommended □ recommended

Recommended Levels

0.4-1.5 % additive (as supplied) based upon 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

The additive can be added via volumetric or gravimetric dosing units during processing in all types of extruders and injection molding machines.

Special Note

The product can be used at temperatures of up to 280 °C. To achieve the optimum anti-static effect, the relative humidity of the surrounding atmosphere must be at least 45 %.



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAC®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITÉ®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties 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. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany