

SCONA TPPE 1102 GALL

Compatibilizer for blends of polyethylene with polar polymers to improve mechanical and optical properties. Coupling agent for filler and fiber-reinforced polyethylene composites to ensure superior adhesion to the matrix.

Product Data

Composition

Carboxylated linear low-density polyethylene (maleic anhydride)

Typical Properties

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

Grafting functionality: Maleic anhydride
 Grafting level: 1.7 %
 MFR (190 °C, 2.16 kg): 10 g/10 min
 Drying loss (3h, 110 °C): < 0.5 %
 Delivery form: Pellet
 Color: Off-white

Storage and Transportation

Store in sealed containers in a cool, dry, and well-ventilated location

Applications

Thermoplastics

Special Features and Benefits

SCONA TPPE 1102 GALL is a high-performance polymeric modifier based on polyethylene (LLDPE) functionalized with maleic anhydride. The additive is an excellent compatibilizer for blends of polyethylene and polar polymers such as polyamides and ethylene vinyl alcohol, and improves the dispersion of the polar polymer. This results in better mechanical and optical properties of the compatibilized material. SCONA TPPE 1102 GALL also acts as an excellent coupling agent for polyethylene wood and glass fiber compounds, as well as a dispersing aid for polyethylene/filler composites (e.g. aluminiumtrihydroxide). In addition, it improves the mechanical properties in highly filled polyethylene compounds.

Recommended Use

Compatibilizer	<input checked="" type="checkbox"/>
Coupling agent	<input checked="" type="checkbox"/>
Dispersing aid	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

Compatibilizer: 5-30 % additive (as supplied) based upon the polyethylene content in polymeric blends.

Coupling agent: 2-4 % additive (as supplied) based upon the total formulation, depending on fiber/filler content.

Dispersing aid: 2-4 % additive (as supplied) based upon the total formulation, depending on fiber/filler content.

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

Incorporation and Processing Instructions

Extensive wetting of the fibers/fillers is required for effective compounding. For this reason, it is recommended to add the additive to the main feed of the extruder.



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

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®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, 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.