

SCONA TSPE 1112 GALL

Coupling agent for polyethylene fiber compounds and polyethylene filler compounds.
Compatibilizer for PA/PE blends.

Product Data

Composition

Linear Low Density Polyethylene (LLDPE) highly functionalized with maleic anhydride

Typical Properties

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

MFR (190 °C, 5 kg): > 5 g/10 min

Drying loss (3 h, 230 °F): < 0.5 %

MAH content: 2 %

Supplied as: 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

Storage temperature max. 35 °C / 95 °F, relative humidity < 80 %. Avoid direct sunlight and contact with water.

Applications

Thermoplastics

Special Features and Benefits

SCONA TSPE 1112 GALL is a coupling agent for polyethylene compounds with wood and other natural fibers, glass fibers, and fillers (ATH, $\text{Mg}(\text{OH})_2$, CaCO_3). It improves mechanical properties (stiffness, flexural strength, impact strength) and reduces water absorption. It is used as a compatibilizer in PA/PE blends and promotes efficient PE distribution.

Recommended Levels

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

25 % additive (as supplied) based upon PE content in PA/PE blends.

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

Incorporation and Processing Instructions

Good wetting of the fibers/fillers is a prerequisite for effective compounding. For this reason, it is of vital importance that the product is added in the main catch.

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Additive Guide



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