# SCONA TPPP 6102 GA

Modifier to improve the adhesion and mechanical properties of polypropylene filler, glass fiber, carbon fiber and natural fiber compounds as well as one packs in polypropylene.

## Product Data

**Composition**
Polypropylene functionalized with maleic acid anhydride.

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

| | |
|---|---|
| MFR (190 °C, 2.16 kg): | 20-40 g/10 min |
| Drying loss (3h, 110 °C): | < 0.5 % |
| MAH content: | > 0.9 % |
| 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**
To be stored and transported at a temperature below 40 °C. Protect from moisture. Store the tightly sealed containers in a dry, cool, and well-ventilated location.

**Special Note**
Slight yellowing of the product may occur, however this will not impact its effectiveness.

## Applications

### Thermoplastics

**Special Features and Benefits**
SCONA TPPP 6102 GA is an adhesion promoter based on a polypropylene functionalized with maleic acid anhydride. The additive is suitable for polypropylene compounds with short and long glass fibers, natural fibers or carbon fibers as well as fillers (ATH, $Mg(OH)_2$, $CaCO_3$) – even at a low dosage. SCONA TPPP 6102 GA additionally improves the mechanical properties of these compounds, especially in polypropylene/natural fiber compounds. Here it also reduces water absorption.

Thanks to its bimodal structure, SCONA TPPP 6102 GA is especially suitable for compounds in which the modifier fulfills various tasks. A particularly suitable application is in polypropylene compounds with glass fibers and an additional content of up to 10 % polyethylene terephthalate (PET). In this application, the additive ensures the glass fibers and PET are well incorporated. SCONA TPPP 6102 GA thereby has an additional strengthening effect at a low density as an alternative to increasing the glass fiber content.

## Recommended Levels

0.5-2 % additive (as supplied) based upon the total formulation for use in polypropylene fiber and filler compounds.

2-3 % additive (as supplied) based upon the total formulation for use in polypropylene glass fiber compounds with an additional PET content.

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

## Special Note

As an additional PET content in PP glass fiber compounds, PET recycled material can also be used.



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