SCONA 20098

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

Product data

Composition
Chemically modified polypropylene homopolymer

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

Grafting functionality:	Maleic anhydride
Grafting level:	0.50–0.55 %*
MFR (190 °C, 1.2 kg):	15–35 g/10 min**
Delivery form:	Pellet
Color:	off-white

* according to the BYK FTIR test method
** measured with a die 8/1

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

Applications

Thermoplastics

Special features and benefits
SCONA 20098 is a polymeric modifier based on polypropylene homopolymer functionalized with a high degree of maleic anhydride. It has excellent wetting properties because of its very low viscosity. The additive is an excellent compatibilizer for blends of polypropylene and polar polymers such as polyamides and ethylene vinyl alcohol and improves the dispersion of the polymer polar material. This results in better mechanical and optical properties of the compatibilized material. It also acts as an excellent coupling agent for short and long glass fiber-reinforced polyolefins and improves their physical, mechanical, and thermal properties. In addition, SCONA 20098 can be used as a coupling agent in natural fiber-reinforced and wood fiber-reinforced composites as well as a dispersing aid for propylene/filler composites (e.g. aluminum hydroxide (ATH)). The additive has exceptional mechanical properties, a good price-performance ratio, a very weak odor, low VOC content and share of emissions.

Recommended use

Compatibilizer	■
Coupling agent	■
Dispersing aid	□

■ especially recommended □ recommended

Recommended levels

Coupling agent: 1–4 % additive (as supplied) based upon the total formulation, depending on the fiber content.
Compatibilizer: 5–30 % additive (as supplied) based upon the polypropylene content in polymeric blends.
Dispersing aid: 1–4 % additive (as supplied) based upon the total formulation, depending on filler content.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

This product can be added via volumetric or gravimetric dosing units during processing in all types of extruders, blow molding, and injection molding machines. In filled materials, to ensure good wetting of fibers/fillers, feeding through the main feed is preferred.

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