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 anydride)

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	■
Coupling agent	■
Dispersing aid	□

■ 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.

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