SCONA TPPE 1212 PAHD

Modifier to improve the mechanical properties of polyethylene fiber compounds and a compatibility agent for polyamide/polyethylene blends.

Product Data

Composition
Polyethylene (HDPE) 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):	0.5-2 g/10 min
Drying loss (3h, 110 °C):	< 0.5 %
MAH content:	> 1.4 %
Supplied as:	Powder

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
A slight discoloration of the product may occur, however this will not impact its effectiveness.

Applications

Thermoplastics

Special Features and Benefits
SCONA TPPE 1212 PAHD is a modifier based on a polyethylene (HDPE) functionalized with maleic acid anhydride for polyethylene compounds with glass fibers, wood and other natural fibers. In these compounds, the additive improves the mechanical properties (rigidity, bending strength, impact strength) and reduces water absorption. A good homogeneity is achieved in polyamide/polyethylene blends. The extremely high maleic acid anhydride content also results in ideal flow properties, making the product highly effective.

Recommended Levels
1-4 % additive (as supplied) based upon the total formulation, depending on the fiber content
30 % additive (as supplied) based upon the polyethylene content in polyamide/polyethylene blends

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

Incorporation and Processing Instructions
It is vital that the product is added to the main feed of the compounding machine.

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Data Sheet
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Additive Guide

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