

SCONA TPPL 1310 PA

Synergist for viscosity modification for polylactic acid-based compounds to achieve a high level of efficiency and shorter reaction times in combination with conventional, epoxy-based additives to improve melt strength. Dispersing aid and adhesion promoter for polar materials.

Product data

Bio-based

Composition

Chemically modified polylactic acid

Typical properties

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

Grafting functionality:	Acrylic acid
Grafting level:	> 3.0 %
MVR (190 °C, 2.16 kg):	3–10 cm ³ /10 min
Drying loss (180 min, 110 °C):	< 0.8 %
Color:	off-white
Supplied as:	powder

Storage and transportation

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

Applications

Thermoplastics

Special features and benefits

SCONA TPPL 1310 PA is a high-performance polymer modifier based on a polylactic acid (PLA) functionalized with acrylic acid. The additive works as a synergist for adjusting the viscosity of polylactic acid compounds to which conventional low molecular weight epoxy-based additives have been added to improve melt strength. This increases efficiency and/or improves performance, and reduces the residence time required for the extrusion process. SCONA TPPL 1310 PA has a high proportion of functionalized polar groups, which also makes the additive an excellent dispersing aid and adhesion promoter for polar surfaces.

Recommended use

Viscosity modifier	<input checked="" type="checkbox"/>
Dispersing aid	<input checked="" type="checkbox"/>
Adhesion promoter	<input type="checkbox"/>

especially recommended recommended

Recommended levels

Viscosity modifier: 0.5–5 % additive (as supplied) based on the total formulation.

Dispersing aid: 2–6 % additive (as supplied) based on the total formulation, depending on the filler content.

Adhesion promoter: 2–6 % additive (as supplied) based on the total formulation.

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

Incorporation and processing instructions

The product can be added via volumetric or gravimetric dosing units during processing in all extruders, blow molding machines, and injection molding machines. In filled materials, dosing via the main feed is recommended in order to guarantee good wetting of the fibers/fillers.



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This issue replaces all previous versions.