

SCONA TPPE 2400 PAHD

Viscosity modifier for polyamide formulations to increase melt strength and processing viscosity in extrusion applications. Compatibilizer for recyclates of polyolefins and polar impurities to improve mechanical and optical properties.

Product data

Composition

Chemically modified high density polyethylene

Typical properties

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

Grafting functionality:	acrylic acid
Grafting level:	5 %
MVR (190 °C, 2.16 kg):	2 cm ³ /10 min
Drying loss (180 min, 110 °C):	< 0.5 %
Color:	off-white
Delivery form:	powder

Storage and transportation

Store in sealed containers in a cool, dry, and well-ventilated location.
To be stored and transported at temperatures below 40 °C.

Applications

Thermoplastics

Special features and benefits

SCONA TPPE 2400 PAHD is a modifier based on a polyethylene (HDPE) functionalized with acrylic acid. Even at very low concentrations, the additive leads to a significant increase in melt strength and processing viscosity in polyamide formulations, especially in extrusion applications. In addition, it provides an increase in impact strength and hydrolysis stability in blends of polyamide and polyethylene. The high and consistent grafting level of SCONA TPPE 2400 PAHD ensures high efficiency and very consistent product performance. As a result, the additive also achieves excellent adhesion to polar surfaces and substrates, such as metals. Furthermore, the additive is an excellent compatibilizer for polar impurities in polyolefin recycling applications. As a dispersing aid, it improves mechanical properties in highly filled polyethylene compounds.

Recommended use

Adhesion promoter	☐
Compatibilizer	☒
Dispersing aid	☐
Impact modifier	☐
Viscosity modifier	☒

☒ especially recommended ☐ recommended

Recommended levels

1–10 % additive (as supplied) based on the total formulation, depending on desired properties and application.

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

Incorporation and processing instructions

Incorporate the product with high shear forces by means of a twin-screw extruder to ensure a proper dispersion in the matrix.

**BYK-Chemie GmbH**

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

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