SCONA TPPET 4214 PA

Viscosity modifier for polyethylene terephthalate-based compounds to increase melt strength and molecular weight during compounding and to improve processability of the material.

Product data

Composition
Chemically modified polyethylene terephthalate

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

Grafting functionality:	Glycidylmethacrylate
Grafting level:	> 2 %
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.

Special note
The additive can crosslink if it is not diluted with unmodified base polymer during melting. Accordingly, the MVR cannot be reliably determined for this product.

Applications

Thermoplastics

Special features and benefits
SCONA TPPET 4214 PA is a high-performance polymer modifier based on a polyethylene terephthalate (PET) functionalized with glycidyl methacrylate.

Thanks to its reactive epoxide groups, the additive works as a viscosity enhancer in polycondensation polymers by increasing the molecular weight and therefore the viscosity during incorporation into the base polymer. In this way, excellent processability is achieved during extrusion and thermoforming. Because the additive is PET-based, it is especially suitable for use in PET-based compounds.

Recommended use

Viscosity modifier	■
Compatibilizer	□
Coupling agent	□

■ especially recommended □ recommended

Recommended levels

Viscosity modifier: 1–10 % additive (as supplied) based on the total formulation, depending on the initial and desired (end) viscosity.

Compatibilizer: 5–30 % additive (as supplied) based on the polyethylene terephthalate content in polymer blends.

Coupling agent: 2–6 % additive (as supplied) based on the total formulation, depending on the fiber/ 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

The product can be added via volumetric or gravimetric dosing units during processing in all extruders.

An incorporation with high shear forces on a double screw extruder is recommended to prevent the formation of gel particles.

Your local contact

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

info@byk.com
www.byk.com