

# SCONA TPPP 2110 FA

Modifier for polypropylene compounds with glass fibers.

## Product Data

### Composition

Polypropylene (PP) functionalized with acrylic acid (AS) with high viscosity of the melt and high degree of carboxylation (2 % AS)

### Typical Properties

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

MFR (190 °C, 10 kg): 2-14 g/10 min

Acrylic acid content: approx. 2 %

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](http://www.byk.com) for further information.

### Storage and Transportation

Storage < 40 °C. Protect from moisture. Store the tightly sealed containers in a dry, cool, and well-ventilated location.

## Applications

### Thermoplastics

#### Special Features and Benefits

SCONA TPPP 2110 FA is an outstanding bonding agent in PP glass fiber composites. The special substrate morphology and high viscosity of the modifier's melt result in excellent processing behavior of the PP glass fiber compound which is produced using SCONA TPPP 2110 FA, without discoloration of the composite. Due to its high viscosity, SCONA TPPP 2110 FA is suitable for producing compounds that are used for extrusion blow molding and extrusion. It is also an excellent compatibility agent, for example, in PA/PP blends, and a very good coupler when using fillers and reinforcing materials.

**Recommended Levels**

See following table:

**Glass fiber-reinforced polypropylene (30 % glass fiber content)**

Physical value	Unit	Standard	Percentage of SCONA TPPP 2110 FA modifier	
			0 %	6 %
Melt index (230/2.16)	g/10 min	ISO 1133	3	1
Density	g/cm <sup>3</sup>	ISO 1183	1.13	1.13
Tensile E-modulus	N/mm <sup>2</sup>	ISO 527	5200	5950
Tensile strength	N/mm <sup>2</sup>	ISO 527	40	85
Ball impression hardness	N/mm <sup>2</sup>	ISO 2039/1	90	110
Charpy impact strength (23 °C)	kJ/m <sup>2</sup>	ISO 179	17	60
Charpy impact strength (-20 °C)	kJ/m <sup>2</sup>	ISO 179	15	58
Charpy notched impact strength (23 °C)	kJ/m <sup>2</sup>	ISO 179/1eA	3	11
Charpy notched impact strength (-20 °C)	kJ/m <sup>2</sup>	ISO 179/1eA	2	10
Heat distortion resistance HDT (1.8 MPa)	°C	DIN EN ISO 75	110	145

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



Additive Guide



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