

SCONA TSPOE 1002 CMB 1-2

Impact strength modifier for polyamide.

Product Data

Composition

Ethylene-octene copolymer 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, 21 kg): 8-14 g/10 min
Drying loss (3h, 110 °C): < 0.5 %
MAH content: > 0.45 %
Supplied as: Transparent granulate

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

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 TSPOE 1002 CMB 1-2 is an effective impact strength modifier for polyamide 6, polyamide 6.6, and polyamide 12. It can also be used in colorless compounds.

Recommended Levels

See following table:

Polyamide 6 was compounded in a ZSK 25 with varying proportions of SCONA TSPOE 1002 CMB 1-2. Testing was conducted on standardized injection-molded items in a freshly molded state. The following properties were achieved:

Physical Data	Unit	Standard	PA 6 Solution viscosity 2.6	With SCONA TSPOE 1002 CMB 1-2		
			0	6	10	15
Melt index MFI (230 °C/5 kg)	g/10 min	ISO 1133	60	42	38	30
Tensile elastic module	N/mm ²	ISO 527	3190	3000	2610	2590
Tensile strength	N/mm ²	ISO 527	79.6	68.8	65.2	53.7
Tensile elongation	%	ISO 527	13.6	29.7	23.9	58.8
Bending stress	N/mm ²	ISO 178	87.1	74	65.8	58.3
Bending E module	N/mm ²	ISO 178	2520	2070	1910	1750
Charpy notched impact strength (23 °C)	kJ/m ²	ISO 179/1eA	3	16.3	25.1	59.9*

* = partially no fracture

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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This issue replaces all previous versions – Printed in Germany