

Material name, short description	TPU
Material name, based on technical standards	Thermoplastic polyurethane
Material description / intended use	Softelastic and abrasion-resistant plastic.
Color	Similar to Pantone 5255 C
Compound code	TPU 93.29-01
Old, but still valid compound code	TPU 93.447-01

**Mechanical properties**

Hardness nominal	93 $\pm$ 5 Shore A DIN 53505
Hardness	94 Shore A
Density nominal	1.2 $\pm$ 0.03 g/cm <sup>3</sup> DIN 53479
Tensile strength	55 N/mm <sup>2</sup> DIN 53504
Elongation at break	500 % DIN 53504
Modulus 100%	12.5 N/mm <sup>2</sup> DIN 53504
Modulus 200%	17.8 N/mm <sup>2</sup> DIN 53504
Modulus 300%	24.5 N/mm <sup>2</sup> DIN 53504
Compression set	15 % DIN 53517 70 h, 23 °C
	25 % DIN 53517 24 h, 70 °C
	30 % DIN 53517 24 h, 100 °C
	35 % DIN 53517 70 h, 100 °C
Tear resistance	100 N/mm DIN 53515
Abrasion	35 mm <sup>3</sup> DIN 53516

**Thermal properties**

Operating temperature min.*	-35 °C
Operating temperature max.*	100 °C
Operating temperature max. short term*	110 °C
Glass transition temperature	-35 °C

\* Approximate value, dependent on the application

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.