

Material name, short description	TPU
Material name, based on technical standards	Thermoplastic polyurethane
Material description / intended use	Softelastic and abrasion-resistant plastic.
Color	grey
Compound code	TPU 90.29-01
Old, but still valid compound code	TPU 90.447-01

Mechanical properties

Hardness nominal	90 \pm 5 Shore A ISO 868
Hardness	91 Shore A
Density nominal	1.13 \pm 0.03 g/cm ³ ISO 1183-1
Tensile strength	54 N/mm ² DIN 53504
Elongation at break	550 % DIN 53504
Modulus 100%	11.4 N/mm ² UNI ISO 815
Modulus 300%	18 N/mm ² UNI ISO 815
Compression set	26 % ISO 815 24 h, 70 °C
	30 % ISO 815 24 h, 100 °C
	33 % ISO 815 70 h, 70 °C
	42 % ISO 815 70 h, 100 °C
Abrasion	20 mm ³ ISO 4649

Thermal properties

Operating temperature min.*	-40 °C
Operating temperature max.*	90 °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.