

TPU 94 / 80-13-94000

Hydrolysis-resistant polyurethane
94 ShA / FDA / red

- FDA compliant
- Resistant to mineral oils, HFD-U and HETG fluids, acidic oils and gases, cold water as well as diluted acids and alkalis, excellent resistance to ozone and weathering.
- High wear and abrasion resistance, high tensile strength and excellent tear propagation resistance, very good damping capacity and very good low-temperature flexibility.

Property	Value	Unit	DIN Standard
Hardness	94 ±3	Shore A	DIN ISO 7619-1
Density	1,21	g/cm ³	DIN EN ISO 1183-1
Tensile strength at 100% elongation	13,3	N/mm ²	DIN 53504
Tensile strength at 300% elongation	40,5	N/mm ²	DIN 53504
Elongation at break	430	%	DIN 53504
Tensile strength	–	N/mm ²	DIN 53504
Compression set 100°C/70h	28	%	DIN ISO 815-1 B
Compression set 100°C/24h	33	%	DIN ISO 815-1 B
Rebound resilience	42	%	DIN ISO 53512
Tear resistance	40,1	N/mm	DIN ISO 34-1
min. operating temperature	-30	°C	constantly
max. operating temperature	+110	°C	constantly
max. operating temperature short	+125	°C	couple of hours

FDA confirmation

We hereby confirm, the above mentioned quality, that all individual components used for the above mentioned recipe on the list contained in the Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD, hereinafter referred to as 'the list subchapters are mentioned: 21CFR 177.1680.

This confirmation does not release the processor of the above mentioned mixture from the obligation to verify the suitability of the material for specific applications, and, if necessary, an authorisation for the intended use in the relevant institution and to check the compatibility with all legal and regulatory requirements for medical devices and/or food contact materials.

All above stated data result from random tests which were taken from the ongoing production. All data were established based on standard test-specimen according to ISO, DIN and ASTM standards and can basically not be carried over to the construction element.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.