

## MATERIAL DATA SHEET

### T-ECOPUR (blue)

**Thermoplastic polyurethane-elastomer (TPU)  
for low temperature application**

Property	Unit	Value	Standard
<b>Durometer hardness</b>	SHORE A	95 ± 2	DIN 53505
<b>Durometer hardness</b>	SHORE D	48 ± 2	DIN 53505
<b>Density</b>	g/cm <sup>3</sup>	1,17 ± 0,01	DIN 53479
<b>Tensile strength</b>	N/mm <sup>2</sup>	≥ 50	DIN 53504
<b>Elongation at break</b>	%	≥ 450	DIN 53504
<b>100 % modulus</b>	N/mm <sup>2</sup>	≥ 12	DIN 53504
<b>Compression set: 70°C/70h, 10 % compression</b>	%	20	DIN ISO 815
<b>Compression set at - 40°C</b>	%	45	DIN ISO 815
<b>Tear strength</b>	N/mm	80	DIN 53515
<b>Rebound resilience</b>	%	50	DIN 53512
<b>Abrasion</b>	mm <sup>3</sup>	15	DIN 53516
<b>Glass temperature</b>	°C	- 42	DIN 53445
<b>Minimum service temperature</b>	°C	-50	----
<b>Maximum service temperature</b>	°C	+110	----

The mentioned data are only valid for test pieces of the corresponding ISO, DIN and ASTM standards and cannot be directly related to gaskets and joints. The values which are marked with the symbols greater than (≥) and smaller than (≤) are nominal values and must be fulfilled of each batch. All values which are not marked are typical values which are only tested on selected samples.

Judenburg, July 1996  
Dr. TS/He wdtpure/werkstoffe