

## MATERIAL DATA SHEET

### S - ECOPUR "A" (grey/black)

Self-lubricated thermoplastic polyurethane-elastomer (TPU) with lubricating agents for reduced friction applications – new compound with improved wear characteristics (marked with "A")

DIN  
YAU      ASTM  
YAU

Property	Unit	Value	Standard
Durometer hardness	SHORE A	95 ± 1	DIN 53505
Durometer hardness	SHORE D	48 ± 3	DIN 53505
Density	g/cm <sup>3</sup>	1,23 ± 0,02	DIN EN ISO 1183-1
Tensile strength	N/mm <sup>2</sup>	48	DIN 53504
Elongation at break	%	400	DIN 53504
100 % modulus	N/mm <sup>2</sup>	17	DIN 53504
Compression set: 70°C / 24h, 20 % compression	%	25	----
Compression set: 100°C / 24h, 20 % compression	%	30	----
Compression set: 70°C/70h, 10 % compression	%	----	DIN ISO 815
Tear strength	N/mm	120	DIN ISO 34-1
Rebound resilience	%	----	DIN 53512
Abrasion	mm <sup>3</sup>	21	DIN ISO 4649
Minimum service temperature	°C	-20	----
Maximum service temperature	°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 ( $\geq$ ) and smaller than ( $\leq$ ) are nominal values and must be fulfilled of each batch. These values are only tested on selected samples.