

Thermoplastic Polyurethane Elastomer (TPU) - modified for optimized friction and wear behaviour - 58D

X-ECOPUR S

DIN: AU

Property	Unit	Value	Standard
Standard color	–	Dark grey	■
Durometer hardness*	Shore A	97 ±1	DIN ISO 48-4
Durometer hardness*	Shore D	58 ±3	DIN ISO 48-4
Density	g/cm ³	1,23 ±0,02	DIN EN ISO 1183-1
Tensile strength	MPa	≥ 38	DIN 53504
Elongation at break	%	≥ 300	DIN 53504
100% modulus	MPa	≥ 22	DIN 53504
Compression set:			
70 °C / 24 h, 20% compression	%	≤ 33	DIN ISO 815
100 °C / 24 h, 20% compression	%	≤ 39	DIN ISO 815
Tear strength	N/mm	160	DIN ISO 34-1
Abrasion	mm ³	29	DIN ISO 4649
Minimum service temperature	°C	–20	–
Brittleness temperature	°C	< –60	–
Maximum service temperature	°C	+115	–
Short term	°C	+130	–

IMPORTANT NOTE: The values shown above are only valid for material samples prepared for test purposes according to the stated standards. The values density, durometer hardness (Shore A) and those marked with the symbols, greater than or equal to (≥) and smaller than or equal to (≤), are nominal values and must be fulfilled for each batch. These values are tested on selected samples.

* Testing time is 3 seconds

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