

Technical data sheet in accordance with ASTM

Material

TPU PU955502

blue

revision index
2

revision date
12/8/2023

page 1 / 3

Physical properties

	nominal range	typical values	
Density ASTM D 297	1.20 ±0.03	1.20	g/cm ³
Hardness ASTM D 2240, Shore A	95 ±5	95	Shore
Tensile strength ASTM D 412	> 10	51	MPa
Elongation at break ASTM D 412	> 100	512	%
Compression set ASTM D 395, 22 h, 100 °C	---	31	%
Temperature range	-35°C to 110°C short term: 120°C		

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

Country	Part	Remark	Expires
Info ROHS and ELV		EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D573, Shore A)	Shore	95	96	1
Tensile strength (ASTM D573)	MPa	51	47.8	-6 %
Elongation at break (ASTM D573)	%	512	450.6	-12 %

Change after aging in ASTM-Oil No. 1: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	95	96	1
Tensile strength (ASTM D471)	MPa	51	45.3	-11 %
Elongation at break (ASTM D471)	%	512	460.3	-10 %
volume change (ASTM D471)	%		-1	

Freudenberg

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blue

revision index

2

revision date

12/8/2023

page 2 / 3

Change after aging in ASTM-Oil No. 3: 70h/100°C

Typ. values

Hardness (ASTM D471, Shore A)
Tensile strength (ASTM D471)
Elongation at break (ASTM D471)
volume change (ASTM D471)

Shore
MPa
%
%

Base value	After aging	difference
95	93	-2
51	45.7	-10 %
512	452.6	-12 %
	2	

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TPU PU955502

blue

revision index

2

revision date

12/8/2023

page 3 / 3

No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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