

Technical data sheet in accordance with ASTM

Material

TPU PU953401

blue

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Physical properties		nominal range	typical values	
Density ASTM D 1817, 23 °C		1.20 ±0.02	1.20	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C		95 ±5	95	Shore
Tensile strength ASTM D412		---	33.7	MPa
Elongation at Break ASTM D412		---	464	%
Compression set ASTM D395, B, 22 h, 100 °C, 25 %		---	29	%
Low temperature test ASTM D1329, TR10		---	-32	°C
Tear strength ASTM D 624, C, 23 °C		---	169	KN/m
Glass Transition Temperature		---	-39.7	°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
RoHS conform		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 D2240, Shore A)	Shore	94	94	0
Tensile strength (ASTM D412)	MPa	36.6	35.1	-4 %
Elongation at Break (ASTM D412)	%	494	498.9	1 %

Freudenberg

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Change after aging in IRM 901: 70h/100°C

Hardness (ASTM D2240, Shore A)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)
 volume change (ASTM D471)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
94	94	0	
36.6	42.5	16 %	
494	498.9	1 %	
	0		

Change after aging in IRM 903: 70h/100°C

Hardness (ASTM D2240, Shore A)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)
 volume change (ASTM D471)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
94	93	-1	
36.6	36.6	0 %	
494	489	-1 %	
	5		

Change after aging in Water: 70h/100°C

Hardness (ASTM D2240, Shore A)
 Tensile strength (ASTM D412)
 Elongation at Break (ASTM D412)
 volume change (ASTM D471)

Shore
 MPa
 %
 %

Typ. values			
Base value	After aging	difference	
94	92	-2	
36.6	27.8	-24 %	
494	533.5	8 %	
	1		

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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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