

Technical data sheet in accordance with ASTM

Material

TPU PU955502

blue

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1	7/13/2017		

Physical properties	nominal range	typical values	
Density ASTM D 1817	1.20 ±0.02	1.20	g/cm ³
Hardness ASTM D 2240, Shore A	95 ±5	95	Shore
Tensile strength ASTM D 412	---	52.5	MPa
Elongation at Break ASTM D 412	---	492	%
Compression set ASTM D 395, 22 h, 100 °C	---	30	%
Temperature range	-35°C to 110°C	short term: 120°C	

Declarations of conformity

	Country	Part	Remark	Expires	unlimited
RoHS conform			including EU 2011/65 and EU2015/863 (ROHS III)		<input checked="" type="checkbox"/>

Change after aging in Air: 70h/100°C

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	95	97	2
Tensile strength (ASTM D412)	MPa	52.5	49.2	-6 %
Elongation at Break (ASTM D412)	%	492	419.2	-15 %

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D2240, Shore A)	Shore	95	96.7	2
Tensile strength (ASTM D412)	MPa	52.5	48.3	-8 %
Elongation at Break (ASTM D412)	%	492	431	-12 %
volume change (ASTM D471)	%		-1.1	

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

Typ. values

	Base value	After aging	difference	
Hardness (ASTM D2240, Shore A)		95	93	-2
Tensile strength (ASTM D412)		52.5	48.6	-8 %
Elongation at Break (ASTM D412)		492	420.7	-14 %
volume change (ASTM D471)			4.6	

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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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