DICHTOMATIK

FREUDENBERG
INNOVATING TOGETHER

Technical data sheet in accordance with ASTM

Material
TPU PU905501
blue

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Physical properties	nominal range	typical values	
Density ASTM D297	1.14 ±0.03	1.14	g/cm³
Hardness ASTM D2240, Shore A	92 ±5	92	Shore
Tensile strength ASTM D412	> 10	51	MPa
Elongation at break ASTM D412	> 100	532	%
Compression set ASTM D395, Slab B, 22 h, 100 °C	---	35	%

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	92	93	1
Tensile strength (ASTM D573)	MPa	51	46.6	-9 %
Elongation at break (ASTM D573)	%	532	452.7	-15 %

Change after aging in ASTM-Oil No. 1: 70h/100°C		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	92	93	1
Tensile strength (ASTM D471)	MPa	51	47.3	-7 %
Elongation at break (ASTM D471)	%	532	463.3	-13 %
volume change (ASTM D471)	%		-0.7	

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

		Typ. values		
		Base value	After aging	difference
Hardness (ASTM D471, Shore A)	Shore	92	90	-2
Tensile strength (ASTM D471)	MPa	51	45.8	-10 %
Elongation at break (ASTM D471)	%	532	456.4	-14 %
volume change (ASTM D471)	%		1.1	

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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 manufactories 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 provisons do not plan for something else.

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