

Spectroplast TrueSil A50

A white translucent silicone material for general applications.

TrueSil Silicone products are highperformance 3D printed (3DP) silicone rubber products produced by Spectroplast's proprietary Silicone Additive Manufacturing (SAM) technology. These silicone elastomers are made of 100% pure silicone and fulfill market standards in terms of performance and surface quality. TrueSil Silicone products come in various shore durometers. All 3D printed products made of TrueSil Silicone are postprocessed after 3D printing to obtain final performance. All tests and certifications are performed on the printed products and not the raw material.



MATERIAL DATA

TrueSil A50

	METRIC ¹	IMPERIAL ¹	METHOD
Shore Hardness	20A		ISO 7619-1
Young's Modulus ^{10-50%}	> 0.9 MPa		ISO 37 Type 4
Tensile Strength	> 8.5 MPa	> 1232 psi	ISO 37 Type 4
Elongation	> 600 %		ISO 37 Type 4
Tear Strength	> 9 N/mm	> 51 lbs/in	ASTM D624 Type C
Compression Set ^{24h @ RT}	< 1.5 %		ASTM D395 Type B
Color	white translucent		
Cytotoxicity ²	Non-Cytotoxic		ISO 10993-5:2009
Skin Irritation ²	Non-Irritant		ISO 10993-23:2021-10

¹ Material properties can depend on part geometry, print orientation, temperature and disinfection or sterilisation methods.

² Printed parts were submitted to TentaConsult for evaluation in accordance with ISO10993-5:2009 Biological evaluation of medical devices-Part5: Tests for in vitro cytotoxicity; ISO 10993-23:2021-10 Biological evaluation of medical devices-Part23: Test for skin irritation.

DISCLAIMER

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