

## Material Specification Sheets

# Stereolithography (SLA)

Parameter	Unit	Standard	Standard	Tough	Castable	Biocompatible
<b>Build Space</b>	<b>mm</b>	<b>450x450x350</b>	<b>140x140x170</b>	<b>140x140x170</b>	<b>120x70x120</b>	<b>250x250x150</b>
Tensile strength	MPa	52	65	55,7	k.A.	50
Elongation at break	%	6-10	6	24	k.A.	k.A.
Modulus of elasticity	MPa	2500	2800	2700	65	1500
Flexural Strength	MPa	82	k.A.	60,6	k.A.	k.A.
Flexural Modulus	MPa	2000	2200	1600	k.A.	k.A.
HDT, °C @ 0.45MPa	°C	55	73,1	45,9	k.A.	k.A.
HDT, °C @ 1.82MPa	°C	50	58,4	48,5	k.A.	k.A.
Izod Notched Impact	J/m	21	25	38	k.A.	k.A.
Water Absorption	%	0,25	k.A.	k.A.	k.A.	k.A.
Tg (Glass Transition Temperature)	°C	k.A.	k.A.	k.A.	k.A.	k.A.
Shore Hardness (D)	Scale D	83	k.A.	k.A.	55	k.A.
Shore Hardness (A)	Scale A	k.A.	k.A.	k.A.	k.A.	k.A.
Rockwell Hardness	Scale M	k.A.	k.A.	k.A.	k.A.	k.A.
Polymerized density	g/cm3	1,12	1,1	1,1	1,04	1,1
Ash content	%	k.A.	k.A.	k.A.	k.A.	k.A.



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Parameter	Unit	Standard	Standard	Robust	Ausbrennbar	Biokompatibel
<b>Build Space</b>	<b>mm</b>	<b>450x450x350</b>	<b>140x140x170</b>	<b>140x140x170</b>	<b>120x70x120</b>	<b>250x250x150</b>
Tensile strength	MPa	52	65	55,7	k.A.	50
Elongation at break	%	6-10	6	24	k.A.	k.A.
Modulus of elasticity	MPa	2500	2800	2700	65	1500
Flexural Strength	MPa	82	k.A.	60,6	k.A.	k.A.
Flexural Modulus	MPa	2000	2200	1600	k.A.	k.A.
HDT, °C @ 0.45MPa	°C	55	73,1	45,9	k.A.	k.A.
HDT, °C @ 1.82MPa	°C	50	58,4	48,5	k.A.	k.A.
Izod Notched Impact	J/m	21	25	38	k.A.	k.A.
Water Absorption	%	0,25	k.A.	k.A.	k.A.	k.A.
Tg (Glass Transition Temperature)	°C	k.A.	k.A.	k.A.	k.A.	k.A.
Shore Hardness (D)	Scale D	83	k.A.	k.A.	55	k.A.
Shore Hardness (A)	Scale A	k.A.	k.A.	k.A.	k.A.	k.A.
Rockwell Hardness	Scale M	k.A.	k.A.	k.A.	k.A.	k.A.
Polymerized density	g/cm <sup>3</sup>	1,12	1,1	1,1	1,04	1,1
Ash content	%	k.A.	k.A.	k.A.	k.A.	k.A.

