

Materialdatenblätter

Stereolithographie

Parameter		Unit	Standard	Standard	Robust	Ausbrennbar	Biokompatibel
English	Deutsch	Einheit					
Build Space	Bauraum	mm	450x450x350	140x140x170	140x140x170	120x70x120	250x250x150
Tensile strength	Zugfestigkeit	MPa	52	65	55.7	k.A.	50
Elongation at break	Bruchdehnung	%	6-10	6	24	k.A.	k.A.
Modulus of elasticity	Elastizitätsmodul	MPa	2500	2800	2700	65	1500
Flexural Strength	Biegefestigkeit	MPa	82	k.A.	60.6	k.A.	k.A.
Flexural Modulus	Biegemodul	MPa	2000	2200	1600	k.A.	k.A.
HDT, °C @ 0.45MPa	Wärmeformbeständigkeit B ISO 75 HDT/B (0,45 MPa) Vicat softening temperature A/50	°C	55	73.1	45.9	k.A.	k.A.
HDT, °C @ 1.82MPa	Wärmeformbeständigkeit A ISO 75 HDT/A (1,8 MPa) Vicat softening temperature B/50	°C	50	58.4	48.5	k.A.	k.A.
Izod Notched Impact	Izod Schlagzähigkeit	J/m	21	25	38	k.A.	k.A.
Water Absorption	Wasserabsorption	%	0.25	k.A.	k.A.	k.A.	k.A.
Tg (Glass Transition Temperature)	Glasübergangstemperatur TG	°C	k.A.	k.A.	k.A.	k.A.	k.A.
Shore Hardness (D)	Shore Härte	Scale D	83	k.A.	k.A.	55	k.A.
Shore Hardness (A)	Shore Härte	Scale A	k.A.	k.A.	k.A.	k.A.	k.A.
Rockwell Hardness	Rockwell Härte	Scale M	k.A.	k.A.	k.A.	k.A.	k.A.
Polymerized density	Dichte	g/cm3	1.12	1.1	1.1	1.04	1.1
Ash content	Ascheanteil	%	k.A.	k.A.	k.A.	k.A.	k.A.

