STRATASYS Dimension SST1200es



Dimension SST 1200es

User-friendly 3D printer for the production of advanced and powerful themes such. functional prototypes, architectural models, clamping fixtures and tools

Technology: FDM (Fused Deposition Modeling)

Construction camber: 254 x 254 x 305 mm.

ayer thickness: 0,254 mm. og 0,330 mm.

Minimum thickness: 1,27 mm.

Tolerance: up to 50 mm: Pr. Subsequent 50 mm:

X/Y = +/-0.15 X/Y = +/-0.3%

Z = + 0.2 mm.

Model Materiale: ABSplusTM

Standard Colors:

White Black Grey Red Yellow

Colors at an additional cost:

Ivory Blue Olive-green Yellow

Support materiale: SST Soluble Support Technology

(The machine can ONLY building in ABS, however, in 9 different colors)

Benefits:

- ABS material as the ABS thermoplastics that are used for injection molding.
- Cheap models (depending on the number, compared to SLS)
- Faster then SLA and SLS

Disadvantages:

- Rough" surface on the bottom and top.

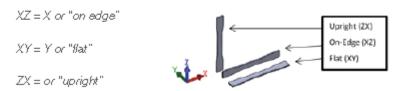
Miscellaneous features:

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
MEGHANIGAET NOT ENTIEG	TEOT ME ITTOD	XZ AXIS	XZ AXIS
Tensile Strength, Ultimate (Type 1, 0.125", 0.2"/min)	ASTM D638	4,700 psi	33 MPa
Tensile Strength, Yield (Type 1, 0.125", 0.2"/min)	ASTM D638	4,550 psi	31 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	320,000 psi	2,200 MPa
Tensile Elongation at Break (Type 1, 0.125", 0.2"/min)	ASTM D638	6%	6%
Tensile Elongation at Yield (Type 1, 0.125", 0.2"/min)	ASTM D638	2%	2%
IZOD Impact, notched (Method A, 23°C)	ASTM D256	2.0 ft-1b/in	106 J/m

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH		METRIC	
		XZ AXIS	ZX AXIS	XZ AXIS	ZX AXIS
Flexural Strength (Method 1, 0.05"/min)	ASTM D790	8,450 psi	5,050 psi	58 MPa	35 MPa
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	300,000 psi	240,000 psi	2,100 MPa	1,650 MPa
Flexural Strain at Break (Method 1, 0.05"/min)	ASTM D790	4%	4%	2%	2%

THERMAL PROPERTIES ²	TEST METHOD	ENGLISH	METRIC
Heat Deflection (HDT) @ 66 psi	ASTM D648	204°F	96°C
Heat Deflection (HDT) @ 264 psi	ASTM D648	180°F	82°C
Glass Transition Temperature (Tg)	DSC (SSYS)	226°F	108°C
Melting Point		Not Applicable ³	Not Applicable ³
Coefficient of Thermal Expansion	ASTM E831	4.90x10 ⁻⁰⁶ in/in/°F	8.82x10 ⁻⁰⁶ mm/mm/° C

Orientation: See Stratasys Testing white paper for more detailed description of build orientations.



ELECTRICAL PROPERTIES*	TEST METHOD	VALUE RANGE
Volume Resistivity	ASTM D257	2.6x10 ¹⁵ - 5.0x10 ¹⁶ ohm-cm
Dielectric Constant	ASTM D150-98	2.3 - 2.85
Dissipation Factor	ASTM D150-98	0.0046 - 0.0053
Dielectric Strength	ASTM D149-09, Method A, XZ Orientation	130 Wmil
Dielectric Strength	ASTM D149-09, Method A, ZX Orientation	290 Wmil

OTHER ²	TEST METHOD	VALUE
Specific Gravity	ASTM D792	1.04
Flame Classification	UL94	HB (0.09", 2.50mm)
UL File Number		E345258
Rockwell Hardness	ASTM D785	109.5