

STEREOLITHOGRAPHY (SLA) MATERIAL RANGE



Material properties (for comparative purposes only)

		ACCURA RANGE		ACCURA RANGE	ACCURA RANGE
MEASUREMENT	TEST METHOD	UNIT	CLEARVUE FREE	SI25	XTREME
			Standard	Standard	Standard
Key benefits & Notes			<ul style="list-style-type: none"> • ABS like rigidity • Excellent water resistance • Excellent optical clarity* • Excellent for Quickcast™ • Multi-functional material 	<ul style="list-style-type: none"> • ABS like rigidity • Polypropylene simulant • Multi-functional material 	<ul style="list-style-type: none"> • ABS like rigidity • Excellent durability • Multi-functional material
COLOUR			CLEAR	WHITE	GREY
Hardness, Shore D	ASTM D 2240		86	80	86
Flexural modulus	ASTM D 790	MPa	1940 – 2250	1380 – 1660	1520 – 2070
Flexural strength	ASTM D 790	MPa	73 – 76	55 – 58	52 – 71
Tensile modulus	ASTM D 638	MPa	1940 – 2250	1590 – 1660	1790 – 1980
Tensile strength	ASTM D 638	MPa	38 – 42	38	38 – 44
Elongation at break	ASTM D 638	%	10.0 – 22.0	13 – 20	14 – 22
Impact strength notched Izod	ASTM D 256	J/m	23 – 51	19 – 24	35 – 52
Heat deflection temperature	ASTM D 648 @ 66 PSI	°C	48	58 – 63	62
	@ 264 PSI	°C	41	51 – 55	54
Glass transition, Tg	DMA, E" peak	°C	56	72 – 74	70 – 74
Coefficient of thermal expansion	TMA (T<Tg)	µm/m-°C	97 (30 - 50°C)	107 (0-20°C)	
Thermal conductivity		W/m °K			
Density		g/cm³	1.15	1.19	1.19

'+ Resins may be withdrawn without notice. Humidity and temperature will affect material properties; therefore, all figures are approximate.

* Transparent, 'optical clarity' is only achieved with hand finishing and paint application, please contact an ARRK representative for more information.

N.B. Not all materials available across all sites

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