

Stereolithography (SLA) - Material Comparison Sheet

	Units	Test Method	si 50*	Watershed 11120**	Somos 9120**
Appearance			Opaque Grey	Transparent with slight green hue	Translucent White / Yellow
Hardness	Shore D		86		80 - 82
Tensile Strength	MPa	ASTM D638M	48-50	47.1 - 53.6	30 - 32
Tensile Modulus	MPa	ASTM D638M	2480 - 2690		
Elongation at Break	%	ASTM D638M	5.3 - 15.0	11 - 20	
Elongation at yield	%	ASTM D638M		3.3 - 3.5	15 - 25
Young's Modulus	MPa	ASTM D638M			1227 - 1462
Modulus of Elasticity	MPa	ASTM D638M		2650 - 2880	
Flexural Strength	MPa	ASTM D790M	72 - 77	63.1 - 74.16	41 - 46
Flexural Modulus	MPa	ASTM D790M	2210 - 2340	2040 - 2370	1310 - 1455
Izod Impact-Notched	J/m	ASTM D256A	16.5 - 28.1	20 - 30	48 - 53
Index of Refraction		ASTM D542A	N/A	1.512 - 1.515	N/A
HDT					
@ 0.46 MPa	°C	ASTM D468M	49 - 53	45.9 - 54.5	52 - 61
@ 1.81 MPa	°C	ASTM D468M	43 - 46	49.0 - 49.7	
@ 0.46 MPa with thermal Post Cure	°C	ASTM D468M	74 - 80		

* Data referenced from 3D Systems Product datasheets. Full Datasheets available on request.

** Data referenced from DSM Somos Product datasheets. Full Datasheets available on request.