

SLA Material Properties



Mechanical Properties	Test Method	Units	Rigid (Somos 11120 WaterShed)	WaterClear (Somos 10120 WaterClear)	Durable (Somos 9100)	Hi-Res Durable (SL 7540)	Semi-Flexible (Somos 8100)
Tensile Strength	ASTM D638	psi	7,302	3,736	4,700	5,500	3,800
Tensile Modulus	ASTM D638	psi	400,000	248,200	212,000	223,000	73,500
Tensile Elongation at Break	ASTM D638	psi	11% - 20%	11% - 20%	25%	11% - 22%	22%
Flexural Strength	ASTM D790	psi	10,000	5,726	6,700	7000	3,700
Flexural Modulus	ASTM D790	psi	320,000	190,580	211,000	199,000	91,000
Hardness	DIN 53505/2240	Shore D	83	81	82	79	81
Izod Impact -	ASTM D256	(ft-lb)/in	0.4 - 0.6	0.914	1.0	0.72	1.1
Heat Deflection Temp	ASTM D648	degF	130	112	142	135	130

SLA Finishing

- Strip and Ship** – Support removal and sand blasting
- Engineering Review** – Support removal, removal of outside layers and sand blasting
- Show Model (Master Model)** - Support removal, removal of outside layers, sand blasting and primer. Paint Ready
- High Show Model (Clear Master Model)** – Support Removal, removal of inside and outside layers, sand blasting and primer. Paint Ready.