

Stereolithography Materials Selector Guide: Applications

Application		HeCd Laser 325nm	All Systems with Solid State Lasers 355nm
Master Patterns Highly accurate and durable			WaterShed XC 11122*, WaterClear Ultra 10122*, ProtoTherm 12120*
Functional Parts Thermoplastic-like modulus, durable and suitable for snap-fits	PP-like	Somos 9110	Somos 9120
	ABS-like		WaterShed XC 11122*, DMX-SL 100
Clear Parts			WaterShed XC 11122*, WaterClear Ultra 10122*
High Temperature Automotive components, electronics consumer products, aircraft engines, tooling			ProtoTherm 12120*
QuickCast™ Investment Casting Pattern High water resistance, low ash, low softening point			WaterShed XC 11122*
Wind Tunnel Models Very rigid, strong and accurate Aerospace, automotive			ProtoTherm 12120*, WaterShed XC 11122*
High Resolution / Highly Accurate Medical, electronic and aerospace		Somos 9110	ProtoTherm 12120*, Somos 9120 DMX-SL 100

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*** Note:**

All these materials are based on Oxetane chemistry and therefore have outstanding water and humidity resistance

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Stereolithography Materials Selector Guide: Property Summary

Material	Appearance	Viscosity cps @ 30°C	Photospeed E ₁₀ mJ/cm ²	Flexural Modulus MPa	Elongation at Break %	Impact Notched Izod J/cm	HDT @0.46MPa, °C, UV (+TPC)
Somos 9110/9120	Translucent	230/450	55/65	1,450/1,383	18/21	0.55/0.51	50/57
WaterClear® Ultra 10122 	Clear, Colorless	165	46	2,490	8	0.25	47 (60)
WaterShed® XC 11122 	Clear, Near Colorless	260	54	2,205	16	0.3	50
ProtoTherm™ 12120 	Clear, Red	550	63	3,320	4.0	0.12	56 (126)
DMX-SL™ 100	Natural	1,500	92	2,290	20	0.73	44

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