

What's in a kilogram of Somos resin...?

Somos knows that today's stereolithography user is looking for value. That's why every kilogram of Somos resin contains much more than just resin itself. From leading-edge research and product

development—backed by more than 50 active Somos patents—to our ISO 9001 certified manufacturing practices and highly skilled technical support group, Somos ensures that you will get the very best performance from our materials. Above all, it's the quality put into each kg of Somos resin that SL users from around the world rely on for a wide variety of applications.

	7120	8120	9120	10120	11120	12120	14120	15120	ProtoTool™ 20L
Property									
Accuracy	●●●●	●●●●	●●●●	●●●●	●●●	●●●●	●●●	●●●●●	●●●●●
High Temperature	●●●					●●●●		●●●●	●●●●●
Moisture Resistance	●●●●				●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Clarity/Low Color	●●			●●●●●	●●●●●				
High Stiffness (Modulus)	●●●			●●●●	●●●	●●●●●	●●●	●●●●●	●●●●●
High Elongation		●●●●●	●●●●●		●●●		●●●		
Perform-a-like									
ABS				●●●●●	●●●●●		●●●●●		
Polypropylene			●●●●●						
Polyethylene		●●●●●							
Application Type									
Investment Casting				●●●●	●●●●●			●●●●●	
Fixtures/Tooling	●●●●		●●●●	●●●●	●●●●	●●●●●	●●●●	●●●●●	●●●●●
Patterns	●●●●			●●●●	●●●●	●●●●	●●●●		●●●●●
General Purpose	●●●			●●●●	●●●●●		●●●●●		
Snap Fit		●●●●●	●●●●●		●●●		●●●		
Injection Molding/Direct Tooling								●●●●	●●●●●
Wind Tunnel						●●●●		●●●●	●●●●●

Material Performance

- Good
- Better
- Best

	Viscosity	Tensile Strength	Elongation at Break	Modulus of Elasticity	Flexural Strength	Flexural Modulus	HDT @ 0.46 Mpa	CTE (0-50°C)	T _g
	cps	MPa	%	MPa	MPa	MPa	°C	μm/m-°C	°C
Somos 12120	550	70.2	4	3520	109	3320	56.5	80.7	74
Somos 11120	260	47-53	11-20	2650-2880	63-74	2040-2370	45.9-54.5	90-96	39-46
ProtoTool™ 20L	2500	72-79	1.2-1.3	10100-11200	118-123	9240-9600	257-259	37-40	49
Somos 10120	130	35	23	1960	39.5	2250	52.9	101	28
Somos 9120	450	30-32	15-25*	1227-1462	41-46	1310-1455	52-61	--	--

*Elongation at Yield