

Neo® 3D Printer Featured Materials Overview

Material Name	Description, Key Benefits	Applications	Category	Color	PP Method	Tensile Strength	Elongation	Flex Modulus	Notched Izod	HDT @ 0.46 MPa	Water Abs	Ease of Use	
						MPa	%	MPa	J/m	°C	%	Print	Vat
Somos® WaterShed® XC 11122	<ul style="list-style-type: none"> • Good clarity • Versatile • Good all around resin • Dimensionally stable • Fast and easy processing 	<ul style="list-style-type: none"> • Functional prototypes • Detailed parts with good clarity • Fluid flow analysis, lenses, duct work, manufacturing aids • Jigs and fixtures • Investment casting 	●	Clear	UV	50	15.5	2,205	25	50	0.35	★★★★	★★★★
Somos® WaterShed® XC+	<ul style="list-style-type: none"> • Great clarity • Versatile use • All around resin • Dimensionally stable • Low differential shrinkage • Fast and easy post processing 	<ul style="list-style-type: none"> • Functional prototypes • Detailed parts with good clarity • Fluid flow analysis, lenses, duct work, manufacturing aids • Investment casting 	●	Clear	UV	27 ± 5	12 ± 3	1,950 ± 56	25 ± 5	50 ± 1	0.28 +/- 0.02	★★★★	★★★★
Somos® WaterShed® Black	<ul style="list-style-type: none"> • Weatherable • True black color • Versatile • Dimensionally stable • Easy to process 	<ul style="list-style-type: none"> • Functional end-use parts • Functional prototyping • Manufacturing aids • Jigs and fixtures 	●	Black	UV	50	15.5	2,205	25	50	0.35	★★★★	★★★★
Somos® 9120™	<ul style="list-style-type: none"> • Memory retention • Fatigue resistance • Good for snap fits • Chemical resistance • Easy to print and use 	<ul style="list-style-type: none"> • Snap fits • Housings • Auto components • Jigs and fixtures 	●	Translucent	UV	31	20	1,380	51	60	-	★★★★	★★★★
Somos® Taurus™	<ul style="list-style-type: none"> • Tough • Temperature performance to 90 °C • Isotropic • Thermoplastic like performance • Excellent surface 	<ul style="list-style-type: none"> • End use parts • Functional prototypes • Jigs and fixtures 	●	Charcoal	UV	47	24	2,054	47.5	62	0.7	★★	★★
					UV+TPC	49	17	1,724	35.8	91			
Somos® EvoLVe™ 128	<ul style="list-style-type: none"> • High strength and toughness • Fast and accurate printing • Great surface finish 	<ul style="list-style-type: none"> • Functional testing • Jigs, fixtures, manufacturing aids • Snap fits • Jigs and fixtures 	●	White	UV	56.8	11	2,654	38.9	52	0.4	★★	★★★★
Somos® NeXt™	<ul style="list-style-type: none"> • Very tough • Tough in high strain rate • Stiff and strong • Dimensionally stable 	<ul style="list-style-type: none"> • Functional testing including for end uses replicating plastics performance • Jigs and manufacturing aids • Sporting goods • Packaging • Snap fits • Jigs and fixtures 	●	White	UV	42	9	2,470	50	56	0.4	★★	★★

Categories: ● Clear/Transparent ● ABS-Like ● PP-like/Flexible ● Tough/Strong ● High Temperature/Stiff ● Application Focused

Ease of Use: Print ★★★ User friendly; suitable for new users ★★ Additional processing guidelines and knowledge required ★ Requires experience
 Vat ★★★ Standard vat maintenance practices ★★ Routine mixing required ★ Routine mixing and additional vat maintenance practices required



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Somos[®] PerFORM™	<ul style="list-style-type: none">• Very high heat resistance• High strength and rigidity• Excellent detail resolution	<ul style="list-style-type: none">• Wind tunnel parts• Tooling• High temperature functional prototypes	●	White	UV UV+TPC	68	1.1	10,000	17	132	0.1	★★	★
						80	1.2	9,030	20	268	0.1		
Somos[®] PerFORM Reflect™	<ul style="list-style-type: none">• Very high heat resistance• High strength and rigidity• Excellent detail resolution• Ready-to-use for PIV testing	<ul style="list-style-type: none">• PIV Wind Tunnel Testing• Tooling• High temperature functional prototypes	●	Orange	UV UV+TPC	63.3	0.79	8,273	16.9	94	0.19	★★	★
						72.4	0.96	7,722	20	276	0.14		
Somos[®] BioClear™	<ul style="list-style-type: none">• Biocompatible for general medical applications• Meets ISO 10993-5/10 (cytotoxicity, sensitization, irritation)• Accurate• Great surface quality• Solvent and moisture resistant	<ul style="list-style-type: none">• Anatomical models• Surgical guides• Non-implantable medical devices	●	Clear	UV	50.4	15.5	2,205	25	50	0.35	★★★★	★★★★
Somos[®] DMX SL™ - 100	<ul style="list-style-type: none">• Withstands autoclave process temperatures• Very tough• Good for extreme detail• Mandrels for hollow composite parts	<ul style="list-style-type: none">• Composites manufacturing mandrel	●	Off White	UV	45	20	2,290	65	44	0.83	★	★★
Somos[®] WaterShed[®] AF	<ul style="list-style-type: none">• Accurate for complex investment casting patterns• Low ash• Dimensionally stable• Excellent surface finish• Antimony Free	<ul style="list-style-type: none">• Investment casting patterns	●	Clear	UV	46	10	2,030	34	50	0.31	★★★★	★★★★

ASTM Test Method

D638

D638

D790

D256

D648

D570-98

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