

# Neo 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
<b>Somos® WaterShed® XC 11122</b>	<ul style="list-style-type: none"> <li>• Good clarity</li> <li>• Versatile</li> <li>• Good all around resin</li> <li>• Dimensionally stable</li> <li>• Fast and easy processing</li> </ul>	<ul style="list-style-type: none"> <li>• Functional prototypes</li> <li>• Detailed parts with good clarity</li> <li>• Fluid flow analysis, lenses, duct work, manufacturing aids</li> <li>• Jigs and fixtures</li> </ul>	●	Clear	UV	50	15.5	2,205	25	50	0.35	★★★	★★★
<b>Somos® WaterShed® Black</b>	<ul style="list-style-type: none"> <li>• Weatherable</li> <li>• True black color</li> <li>• Versatile</li> <li>• Dimensionally stable</li> <li>• Easy to process</li> </ul>	<ul style="list-style-type: none"> <li>• Functional end-use parts</li> <li>• Functional prototyping</li> <li>• Manufacturing aids</li> <li>• Jigs and fixtures</li> </ul>	●	Black	UV	50	15.5	2,205	25	50	0.35	★★★	★★★
<b>Somos® 9120™</b>	<ul style="list-style-type: none"> <li>• Memory retention</li> <li>• Fatigue resistance</li> <li>• Good for snap fits</li> <li>• Chemical resistance</li> <li>• Easy to print and use</li> </ul>	<ul style="list-style-type: none"> <li>• Snap fits</li> <li>• Housings</li> <li>• Auto components</li> <li>• Jigs and fixtures</li> </ul>	●	Translucent	UV	31	20	1,380	51	60	-	★★★	★★★
<b>Somos® Taurus™</b>	<ul style="list-style-type: none"> <li>• Tough</li> <li>• Temperature performance to 90°C</li> <li>• Isotropic</li> <li>• Thermoplastic like performance</li> <li>• Excellent surface</li> </ul>	<ul style="list-style-type: none"> <li>• End use parts</li> <li>• Functional prototypes</li> <li>• Jigs and fixtures</li> </ul>	●	Charcoal	UV UV+TPC	47 49	24 17	2,054 1,724	47.5 35.8	62 91	0.7	★★	★★
<b>Somos® EvoLVe™ 128</b>	<ul style="list-style-type: none"> <li>• High strength and toughness</li> <li>• Fast and accurate printing</li> <li>• Great surface finish</li> </ul>	<ul style="list-style-type: none"> <li>• Functional testing</li> <li>• Jigs, fixtures, manufacturing aids</li> <li>• Snap fits</li> <li>• Jigs and fixtures</li> </ul>	●	White	UV	56.8	11	2,654	38.9	52	0.4	★★	★★★
<b>Somos® NeXt™</b>	<ul style="list-style-type: none"> <li>• Very tough</li> <li>• Tough in high strain rate</li> <li>• Stiff and strong</li> <li>• Dimensionally stable</li> </ul>	<ul style="list-style-type: none"> <li>• Functional testing including for end uses replicating plastics performance</li> <li>• Jigs and manufacturing aids</li> <li>• Sporting goods</li> <li>• Packaging</li> <li>• Snap fits</li> <li>• Jigs and fixtures</li> </ul>	●	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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						MPa	%	MPa	J/m	°C	%	Print	Vat
<b>Somos® PerFORM™</b>	<ul style="list-style-type: none"> <li>Very high heat resistance</li> <li>High strength and rigidity</li> <li>Excellent detail resolution</li> </ul>	<ul style="list-style-type: none"> <li>Wind tunnel parts</li> <li>Tooling</li> </ul>	●	White	UV UV+TPC	68	1.1	10,000	17	132	0.1	★★	★
						80	1.2	9,030	20	268	0.1		
<b>Somos® BioClear™</b>	<ul style="list-style-type: none"> <li>Biocompatible for general medical applications</li> <li>Meets ISO 10993-5/10 (cytotoxicity, sensitization, irritation)</li> <li>Accurate</li> <li>Great surface quality</li> <li>Solvent and moisture resistant</li> </ul>	<ul style="list-style-type: none"> <li>Anatomical models</li> <li>Surgical guides</li> <li>Non-implantable medical devices</li> </ul>	●	Clear	UV	50.4	15.5	2,205	25	50	0.35	★★★★	★★★★
<b>Somos® PerFORM Reflect™</b>	<ul style="list-style-type: none"> <li>Very high heat resistance</li> <li>High strength and rigidity</li> <li>Excellent detail resolution</li> <li>Ready-to-use for PIV testing</li> </ul>	<ul style="list-style-type: none"> <li>PIV Wind Tunnel Testing</li> <li>Tooling</li> <li>High temperature functional prototypes</li> </ul>	●	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		
<b>Somos® DMX SL™-100</b>	<ul style="list-style-type: none"> <li>Withstands autoclave process temperatures</li> <li>Very tough</li> <li>Good for extreme detail</li> <li>Mandrels for hollow composite parts</li> </ul>	<ul style="list-style-type: none"> <li>Composites manufacturing</li> <li>Mandrels</li> </ul>	●	Off White	UV	45	20	2,290	65	44	0.83	★	★★
<b>Somos® WaterShed® AF</b>	<ul style="list-style-type: none"> <li>Accurate for complex investment casting patterns</li> <li>Low ash</li> <li>Dimensionally stable</li> <li>Excellent surface finish</li> <li>Tough for use in jigs and fixtures</li> </ul>	<ul style="list-style-type: none"> <li>Investment casting patterns</li> <li>Functional prototypes</li> <li>Manufacturing aids</li> <li>Jigs and fixtures</li> </ul>	●	Clear	UV	46	10	2,030	34	50	0.31	★★★★	★★★★

ASTM Test Method

D638      D638      D790      D256      D648      D570-98

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