

## ABS-Like Resin

SLA MATERIAL

Material Properties	Value	Unit	Test Standard
Flexural Strength	<b>70-82</b>	<b>Mpa</b>	<b>ASTM D790</b>
Flexural Modulus	<b>2800-3100</b>	<b>Mpa</b>	<b>ASTM D790</b>
Tensile Strength	<b>50 - 65</b>	<b>Mpa</b>	<b>ASTM D638</b>
Tensile elongation at break	<b>6 -10</b>	<b>%</b>	<b>ASTM D638</b>
Elasticity Modulus	<b>2050 - 2450</b>	<b>Mpa</b>	<b>ASTM D638</b>
Water absorption	<b>0,0 - 0,1</b>	<b>%</b>	<b>ASTM D570 24h</b>
Heat deflection temperature	<b>52 - 56</b>	<b>°C</b>	<b>ASTM D648 0,45 Mpa</b>
Heat deflection temperature ( UV post- cured)	<b>56 - 60</b>	<b>°C</b>	<b>ASTM D648 0,45 Mpa</b>
Heat deflection temperature (Thermal post-cured 110° C)	<b>71 - 75</b>	<b>°C</b>	<b>ASTM D648 0,45 Mpa</b>
Coefficient of thermal expansion (40-140° C )	<b>120 - 130</b>	<b>ppm/k</b>	<b>ASTM E 831-2019</b>
Impact strength	<b>45 - 62</b>	<b>J/m</b>	<b>ASTM D256</b>
Material hardness	<b>85 - 90</b>	<b>Shore</b>	<b>Shore D</b>
Density solid	<b>1,17</b>	<b>g/cm3</b>	
Color	<b>White</b>		

### Characteristics

- Remarkable durability and toughness
- Recommended for complex assemblies
- Substitute for CNC machining of PP and ABS plastics
- Master mold for RTV silicone casting
- Especially suited for snap-locks and latches
- Suitable for cold temperatures up to -30°C
- Excellent durability for outdoor applications
- Extreme water and humidity resistance with hydrophobic characteristics

**Prosilas**

*Additive Manufacturing Service & Consulting*

+39 0733 892665  
[info@prosilas.com](mailto:info@prosilas.com)  
[www.prosilas.com](http://www.prosilas.com)