

High Temperature Resistant Resin

SLA MATERIAL

Material Properties	Value	Unit	Test Standard
Flexural Strength	95 - 115	Mpa	ASTM D790
Flexural Modulus	8300 - 9100	Mpa	ASTM D790
Tensile Strength	72 - 86	Mpa	ASTM D638
Tensile elongation at break	2,0 - 3,0	%	ASTM D638
Elasticity Modulus	2700 - 3100	Mpa	ASTM D638
Water absorption	0,0 - 0,1	%	ASTM D570 24h
Heat deflection temperature	105 - 117	°C	ASTM D648 0,45 Mpa
Heat deflection temperature (UV post- cured)	107 - 120	°C	ASTM D648 0,45 Mpa
Heat deflection temperature (Thermal post-cured 110° C)	128 - 136	°C	ASTM D648 0,45 Mpa
Coefficient of thermal expansion (40-140° C)	100 - 110	ppm/k	ASTM E 831-2019
Impact strength	13 - 17	J/m	ASTM D256
Material hardness	90 - 95	Shore	Shore D
Density solid	1,3	g/cm ³	
Dielectric strength	28,7	KW/mm	IEC 60243 - 1
Color	White		

Characteristics

Very high stiff and rigid parts
High temperature resistance
Recommended for aerodynamic wind tunnels and light models
Very smooth surface, easy to finish
High accuracy
Suitable for devices and gauges
Master molds for RTV silicone casting.
Extreme water and humidity resistance

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