

# HTL Resin

HTL is a high performance engineering material with high strength, rigidity, and heat resistance, able to withstand temperatures up to 114°C. HTL enables high resolution features, making it suitable for a broad range of engineering and medical applications including those which require autoclave sterilization.



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		Cured Parts	Standard
Tensile Properties	TENSILE STRENGTH	71.5 MPa	ASTM D638
	ELASTIC MODULUS	2397 MPa	ASTM D638
	ELONGATION AT BREAK	7.8%	ASTM D638
Flexural Properties	FLEXURAL STRENGTH	112.9 MPa	ASTM D790
	FLEXURAL MODULUS	2.8 GPa	ASTM D790
Impact Properties	IMPACT STRENGTH	30 J/m	ASTM D256
Thermal Properties	CTE @ 60C	169.0 $\mu\text{m}/\text{m}/^{\circ}\text{C}$	-
	HDT @ 0.45 MPa	114.2 $^{\circ}\text{C}$	ASTM D648 - 07
	TG	172 $^{\circ}\text{C}$	ASTM D7028
General Properties	CONTACT ANGLE	45-60 $^{\circ}$	ASTM D7334
	WATER ABSORPTION (24h)	1.05%	ASTM D570
	DIALECTIC CONSTANT (10 GHz)	3.45	-
	DF	0.0245	-
	HARDNESS	81 Shore D	ASTM D785
	VISCOSITY	85 cP	-
	STANDARD COLOR	Yellow Translucent / Black / Carbon Black <sup>o</sup>	-
COMPATIBLE BMF SYSTEMS	S130, S140, S230, S240, S350	-	

<sup>1</sup> Final properties are dependent on print conditions, post-processing operations, and part geometry.

<sup>2</sup> Test samples were UV cured and heat cured.

<sup>o</sup> Carbon black materials are not available on 2 $\mu\text{m}$  systems