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HTF Resin

HTF is a heat resistant and tough resin with a high HDT, tensile strength, and biocompatibility. Perfect for high pressure steam applications such as autoclaving.



ISO Standard	Test Description
10993-11:2017	Acute Systemic Toxicity
10993-5: 2009	Cytotoxicity
10993-10:2021	Skin Sensitization Test
10993-4:2017	Hemolytic Properties Test
10993-23: 2021	Intracutaneous Reactivity

	Cured Parts	Standard	
Tensile Properties	TENSILE STRENGTH	96.32 MPa	ASTM D1708
	ELONGATION AT BREAK	7.04%	ASTM D1708
	YOUNG'S MODULUS	2617.74 MPa	ASTM D1708
Flexural Properties	BENDING STRENGTH	136.94 MPa	ASTM D790
	FLEXURAL MODULUS	3463.11 MPa	ASTM D790
Thermal Properties	HDT @ 0.45 MPa	152.45° C	ASTM D648-07
	HARDNESS	91 Shore D	ASTM D785
General Properties	VISCOSITY	381 cP	-
	STANDARD COLOR	Yellow translucent	-
	IMPACT STRENGTH	30.3 J/m	ASTM D256-97
	WATER ABSORPTION (24H)	0.50%	-
	SHRINKAGE	102.041 * 10 ⁻⁶ K ⁻¹	-
	WETTING ANGLE	40 - 60°	-
	DIELECTRIC CONSTANT (10G HZ)	3.0183	-
	DIELECTRIC LOSS	0.0705	-
	COMPATIBLE BMF SYSTEMS	S140, S240, S350, D1025	

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

² Test samples were UV cured and heat cured.