

BMF MED Resin

BMF MED powered by 3D Systems is a rigid amber material for applications requiring biocompatibility, translucency and/or thermal resistance. It provides parts with crisp details, that can be sterilized and tested at high temperatures, over 100 °C.



ISO Standard	Test Description
ISO 10993-10: 2010; ISO 10993-12: 2012; ISO 10993-2: 2006	Skin Irritation Test
ISO 10993-10: 2010; ISO 10993-12: 2012; ISO 10993-12: 2006	Skin Sensitization Test
ISO 10993-11: 2017; ISO 10993-12: 2012; ISO 10993-2: 2006	Pyrogen Test
ISO 10993-5: 2009; ISO 10993-12: 2012	In Vitro Cytotoxicity Test
ISO 10993-11: 2017; ISO 10993-12: 2012; ISO 10993-2: 2006	Acute Systemic Toxicity Test

	Cured Parts	Standard
Tensile Properties	TENSILE STRENGTH	57.6 MPa
	ELASTIC MODULUS	1706 MPa
	ELONGATION AT BREAK	13.4%
Flexural Properties	FLEXURAL STRENGTH	96.6 MPa
	FLEXURAL MODULUS	2.5 GPa
Thermal Properties	HDT @ 0.45 MPa	82.3 °C
	CTE @ 60C	165.5 µm/m/°C
General Properties	CONTACT ANGLE	45-60°
	WATER ABSORPTION (24h)	0.01%
	DIELECTRIC CONSTANT (10 GHz)	2.74
	DF	0.0516
	HARDNESS	72 Shore D
	VISCOSITY	1100 cP
	STANDARD COLOR	Yellow trans
	CELL CULTURE SURVIVAL RATE INVITRO	95.6%
	COMPATIBLE BMF SYSTEMS	S230, S240, S350

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

² Test samples were UV cured and heat cured.