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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	ASTM D638
	ELASTIC MODULUS	1706 MPa	ASTM D638
	ELONGATION AT BREAK	13.4%	ASTM D638
Flexural Properties	FLEXURAL STRENGTH	96.6 MPa	ASTM D790
	FLEXURAL MODULUS	2.5 GPa	ASTM D790
Thermal Properties	HDT @ 0.45 MPa	82.3 °C	ASTM D648 - 07
	CTE @ 60C	165.5 µm/m/°C	-
General Properties	CONTACT ANGLE	45-60°	ASTM D7334
	WATER ABSORPTION (24h)	0.01%	ASTM D570
	DIELECTRIC CONSTANT (10 GHz)	2.74	-
	DF	0.0516	-
	HARDNESS	72 Shore D	ASTM D785
	VISCOSITY	1100 cP	-
	STANDARD COLOR CELL	Yellow translucent	-
	CULTURE SURVIVAL RATE INVITRO	95.6%	-
	COMPATIBLE BMF SYSTEMS	S230, 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.