

Product Specification

30/09/2016

Product name	HeyTec-M		
Type of material	Light cure moldable microhybrid composite		
Recommended medical device classification	Class IIa (93/42 EEC)		
Relevant Standards	DIN EN ISO 4049		
	Parameter	Typical Values	Requirements of ISO 4049
Typical composition	Resin based on Bis-GMA radio-opaque glass filler; silica; polymer powder catalyst, stabilizers, pigments		
	Total filler content (by weight)	81%	
	Total filler content (by volume)	65%	
	Specific gravity (20 °C; 68 °F)	1.90 g/cm ³	
Working properties	Recommended curing time (dental lightcure unit)	20 sec lighter shades 30 sec darker shades	
	Working time (full operating light)	> 90 sec	> 60 sec
	Depth of cure (40 sec)	> 1,75 mm*	> 1,5 mm
Physical properties	Flexural (transverse) strength	130 MPa	> 80 MPa
	Flexural modulus	8250 MPa	-
	Compressive strength	350 MPa	-
	Barcol hardness	75	-
	Water sorption	10 µg/mm ³	< 40 µg/mm ³
	Water solubility	2 µg/mm ³	< 7,5 µg/mm ³
	Colour stability	very good	ISO 7491
	Polishability	high gloss	-
	Radio-Opacity	> 200 % AI	> 200 % AI
	Average particle size of inorganic filler	0.05 -1.5 µm	
Linear polymerisation shrinkage	< 0.9 %		
Storage		< 25 °C (78 °F)	
Shelf life		3 years	

* the measured value (height of the cylinder of cured material) divided by two, according to ISO 4049