

Product Specification

01/10/2016

Product name	HeyTec Core N	
Type of material	Low viscosity dual curing core build-up composite based on dimethacrylates with fillers	
Recommended medical device classification	Class IIa (93/42 EEC)	
Relevant Standards	DIN EN ISO 4049	
	Parameter	Typical Values
Typical composition	Mixture of poly- and difunctional methacrylates, barium glass filler, nano-zirconiumdioxide, nanocalciumfluoride, initiator, catalyst, stabilizer	
	Total filler content (by weight)	70 %
	Specific gravity (20 °C; 68 °F)	1,75 g/cm3
Working properties	Mixing time	n.a. (AUTOMIX)
	Working time (incl. mixing time; 23 °C; 74 °F)	> 1:30 min
	Recommended curing time (light cure)	40 sec
	Depth of cure (40 sec)	> 1,5 mm*
	Setting time (37 °C; 99 °F; without any light, air excluded)	< 3:30 min
Physical properties	Flexural strength	145 MPa
	Compressive strength	320 MPa
	Diametral tensile strength	40 MPa
	Barcol hardness	76
	Radiopacity	strong radiopaque
Storage		< 20 °C (68 °F) Store unopened material in the refrigerator!
Shelf life		1,5 years

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