

Product Specification

01/10/2016

Product name	HeyTec Flow		
Type of material	Flowable light cure composite with fluorides based on dimethacrylates with fillers		
Recommended medical device classification	Class IIa (93/42 EEC)		
Relevant Standards	DIN EN ISO 4049		
	<b>Parameter</b>	<b>Typical Values</b>	<b>Requirements of ISO 4049</b>
Typical composition	Resin based on Bis-GMA radioopaque glass filler pyrogenic silica, catalyst, stabilizers, pigments		
	Total filler content (by weight)	61 %	
	Total filler content (by volume)	41 %	
	Specific gravity (20 °C; 68 °F)	1.79 g/cm <sup>3</sup>	
Working properties	Recommended curing time (dental light cure 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 strength	130 MPa	> 80 MPa
	Flexural modulus	5000 MPa	-
	Compressive strength	320 MPa	-
	Diametral tensile strength	52 MPa	-
	Water sorption	<20 µg/mm <sup>3</sup>	< 40 µg/mm <sup>3</sup>
	Water solubility	<5 µg/mm <sup>3</sup>	< 7,5 µg/mm <sup>3</sup>
	Colour stability	very good	ISO 7491
	Polishability	High gloss	-
	Barcol hardness	70	-
	Radiopacity	> 200 % Al	-
	Average particle size of inorganic filler	0.05-1.0 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