

TECHNICAL DATA SHEET

Product:	Alpha-Dent® Light Cure Hybrid Composite
Product Description:	Alpha-dent® Light Cure Composite Restorative Material with a Bis-GMA polymeric matrix and a 56% by volume blend of inorganic radiopaque fillers with particle range from 0.02 to 4 microns.
Indications for Use:	Alpha-dent® Light Cure Composite Restorative Material is contraindicated on patients with a history of severe allergic reaction to methacrylate resins.
Appearance:	A thick homogeneous paste available in all Vita® Shades.
Curing Mechanism:	Light cured by applying an external energy activated Dental Blue Light with minimum output 600 mW /cm ² and wavelength 400 – 500 nanometers.
Shelf-Life:	30 months
Filler Type:	Barium glass and Silica
	Filler % by Volume: 56
	Filler Particle Range, μ: 0.02 - 4
	Average Filler Particle Size, μ: 2
Main Composition (%w/w):	
	Blend of radiopaque fillers 60 – 80
	Bis-GMA 10 – 20
	Comonomer diluents 5 - 15
	Photoinitiator < 1
	Stabilizer < 1
	Colorant < 1
Physical /Mechanical Properties: (Typical Values)	
	Compressive Strength, MPa 225
	Diametral Strength, MPa 47
	Flexural Strength, MPa 95
	Water Absorption, μg / mm ³ 20
	Water Solubility, μg / mm ³ 1
	Depth of cure, mm/2 2.5
	Radiopacity, 1 mm disk equivalent to 1 mm aluminum

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