

## PHYSICAL DATA

### PRODUCT SPECIFICATION

#### PRODUCT;

**GEM LITE 1**

Material ; Photo cure Anterior composite

#### Indications

Fissure filling, especially where the fissure extends over and beyond the occlusal surface.  
Restoration of Class 1, 111, 1V , V cavities. Class 1 & 1V where aesthetics are of prime importance and where there is a unlikley to be excessive occlusal forces on the posterior region.

#### Contraindications;

In normal clinical use, no systemic or allergic reactions have been reported to date. As a precautionary matter though, this material is contraindicated to patients known to be allergic to composites. ( Composite contact allergies is a documented phenomena in the medical field)

Physical Property Date test;

	<b>Limits</b>	<b>results</b>	<b>Pass/fail</b>
Sensitivity to light	60 secs min	over 60 secs	pass
Depth of cure	2mm Min	over 2mm	pass
Flexural strength	50 mpa/min	68 mpa	pass
Water Absorption solubility	0mg/mm <sup>3</sup> max	41mg/mm <sup>3</sup>	pass
shade	pass/fail	ok	pass
Colour stability	pass/fail	ok	pass
Radio Opacity			
2mm of Aluminium similar	pass		

The above product has been tested to the following specifications : ISO 4090;1988 (E)

Product code ; 1140