

Materials List for:

Shrinkage of Dental Composite in Simulated Cavity Measured with Digital Image Correlation

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Materials

Name	Company	Catalog Number	Comments
Dental composite Z100	3M ESPE	N362979	volume shrinkage ~ 2.5%, Young's modulus ~ 14 GPa
Dental composite Z250	3M ESPE	N326080	volume shrinkage ~ 2.0%, Young's modulus ~ 11 GPa
Dental composite LS	3M ESPE	N240313	volume shrinkage ~ 1%, Young's modulus ~ 10 GPa
Ceramic Primer	3M ESPE	N167818	Rely X
LS System Adhesive	3M ESPE	N391675	Adhesive for compoiste LS
Adper Single Bond Plus	3M ESPE	501757	Adhesive for compoiste Z100 and Z250
Glass rod	Corning Inc.	Pyrex 7740 borosilicate	
Curing light	3M ESPE	Elipar S10	
White paint	Krylon Product Group		Indoor/Outdoor, Flat white
Charcoal powder	Sigma Aldrich, Co.	BCBH6518V	Fluka activated charcoal
CCD camera	Point Grey Research, Inc.	Point Grey Gras-20S4C-C	