

Materials List for:

Multi-material Ceramic-Based Components – Additive Manufacturing of Black-and-white Zirconia Components by Thermoplastic 3D-Printing (CerAM - T3DP)

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URL: <https://www.jove.com/video/57538>

DOI: [doi:10.3791/57538](https://doi.org/10.3791/57538)

Materials

Name	Company	Catalog Number	Comments
Material			
Zirconia black - 1	TZ-3Y-Black	Tosoh	
Zirconia black - 2	ZirPro ColorYZ Black	Saint Gobain	
Zirconia white - 1	TZ-3Y-Black	Tosoh	
Zirconia white - 2	ZirPro ColorYZ Arctic White	Saint Gobain	
Equipment			
laser diffractometer	Mastersizer 2000	Malvern Instruments Ltd., United Kingdom	
dissolver	DISPERMAT CA 20-C	VMA-Getzmann GmbH, Germany	
rheometer	Modular Compact Rheometer MCR 302	Anton Paar, Graz, Austria	
micro dispensing system	MDS 3250	Vermes, Germany	
T3DP-device	IKTS-T3DP-device "TRUDE", in-house development	Fraunhofer IKTS, not commercialized	
profile scanner	LJ-V7020	Keyence	
Slicer 1	Slic3r	open source software	
Slicer 2	Simplify3D	Simplify3D	
debinding furnace	NA120/45	Nabertherm, Germany	
sintering furnace	LH 15/12	Nabertherm, Germany	
FESEM	Gemini 982	Zeiss, Germany	