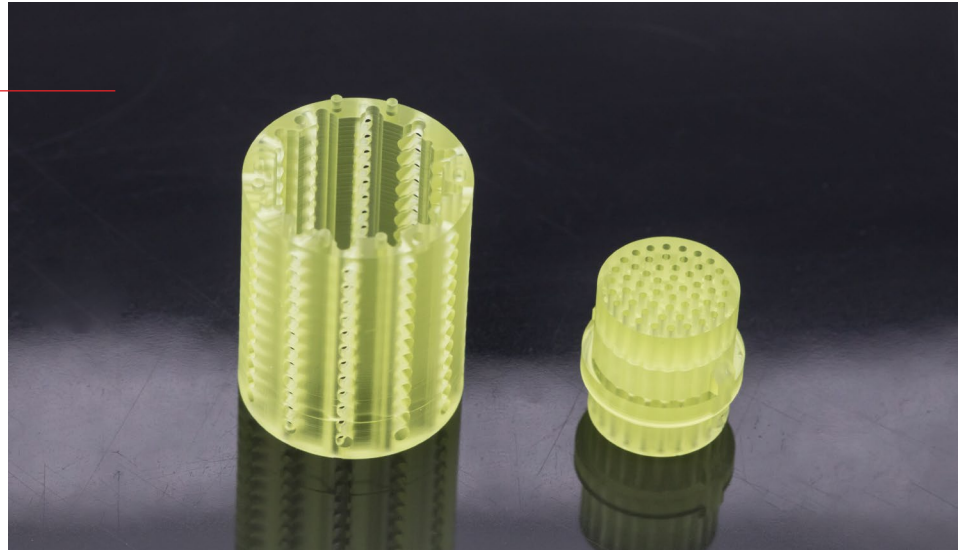


RG Resin

RG from the Forward AM Ultracur3D[®] photopolymer resin line is a durable engineering material which can be used to print functional end-use parts. In addition to being biocompatible, it doesn't uptake any water and is suitable for a wide range of applications such as electrical cases, medical devices, snappers, and functional prototyping.



		Cured Parts	Standard
Tensile Properties	TENSILE STRENGTH	42 MPa	ASTM D638
	ELASTICITY MODULUS	274.3 MPa	ASTM D638
	ELONGATION AT BREAK	11.8%	ASTM D638
Flexural Properties	BENDING STRENGTH	77.7 MPa	ASTM D790
	FLEXURAL MODULUS	2.1 GPa	ASTM D790
Temperature Properties	DISTORTION TEMPERATURE @0.45MPa	56.5 °C	ASTM D648 - 07
General Properties	HARDNESS	77 Shore D	ASTM D785
	VISCOSITY	1090 cP	-
	STANDARD COLOR	Yellow trans / Black	-
	CELL CULTURE SURVIVAL RATE INVITRO	91.7%	-

RG has passed the requirements associated with the following ISO 10993 biocompatibility tests.

ISO Standard	Test Description
ISO 10993-5: 2009	In Vitro Cytotoxicity (MED202011848-01-EN)
ISO 10993-11: 2017	Pyrogen Test (MED202011848-26-EN)
ISO 10993-11: 2017	Acute Skin Toxicity Test (MED202011848-27-EN)
ISO 10993-10: 2010	Skin Sensitization Test (MED202011848-08-EN)
ISO 10993-10: 2010; ISO 10993-2: 2006	Skin Irritation Test (MED202011848-10-EN)

¹ Final properties are dependent on print conditions, post-processing operations, and part geometry.

² Test samples were UV cured and heat cured.