LuxCreo

E-max , Metal Casting

Dental Casting for High-Accuracy, Low-Shrinkage

DCR is an ash-free 3D printed casting resin engineered with dental leading accuracy and low shrinkage to ensure the successful creation of high-quality castings. Its strong and tough formulation prevents fracturing, while optimized model adhesion allows for smooth removal of the casting from the machine, without residue or risk of breakage.
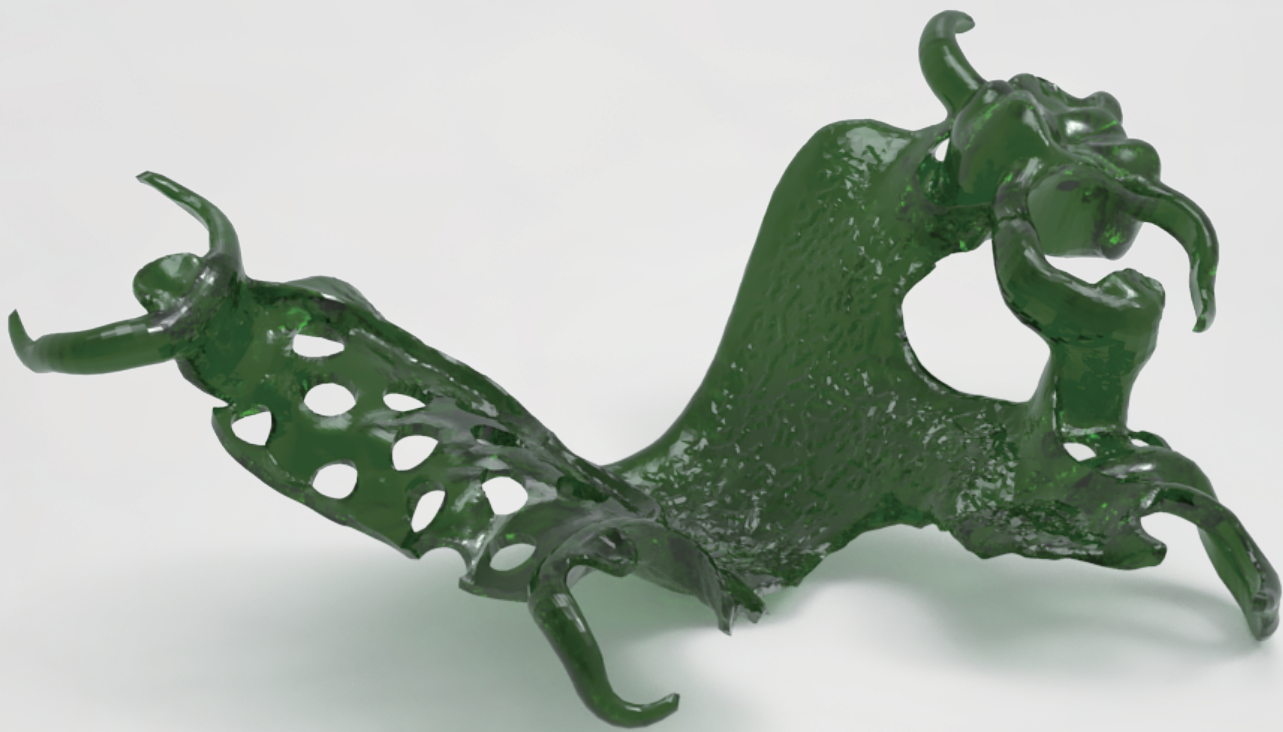
Strong   **Ash-free**   **Small support contact**   **Easily Cleaned**

DCR01   DCR02

DCR

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Luxcreo's DCR is a light-curing resin for the 3D printing of orthodontic castings for use with DLP/LCD/SLA printers (385-405nm).

Composition: methacrylate, photo-initiator, inhibitor, and pigment

	Procedure	Metric
Flexural Properties		
Flexural Strength	ASTM 790	60 MPa
Flexural Modulus	ASTM 790	1800 Mpa
Tensile Properties		
Tensile Strength	ASTM D638	42 Mpa
Elongation at Break	ASTM D638	16%
General Properties		
Hardness	Shore D	85D
Viscosity @ 25°C (cPS)	ASTM 7867	200 Cp

These data were determined in accordance with ISO and ASTM standards and are pursuant to LuxCreo Quality System. This document is valid without signature.

These data are typical values and were determined through testing on DLP printers which are validated for use with LuxCreo's products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. This product is suitable for the manufacturing of dental metal casting crowns and bridges, metal frameworks and Emax pressing. LuxCreo reserves the right to change material characteristics, and formulation without prior notification.