Biocompatible Photopolymer Resin for Form 2

Formlabs Dental SG Resin produces strong, accurate, biocompatible parts ideal for a dental surgical guide and similar applications, and is specifically designed to work with your Form 2 3D Printer. After being post-cured, this material can be steam sterilized in an autoclave, or by gamma-ray sterilization.

$299 / L
Material Properties Data

<table>
<thead>
<tr>
<th>METRIC</th>
<th>METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Properties</td>
<td>Postcured</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>≥ 50 MPa</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>≥ 1500 Mpa</td>
</tr>
<tr>
<td>Hardness Properties</td>
<td>Hardness D Shore ≥ 80 D</td>
</tr>
<tr>
<td>Impact Properties</td>
<td>Charpy Impact Strength Unnotched 12 - 14 kJ/m²</td>
</tr>
</tbody>
</table>

Dental SG is tested at NAMSA, Chasse sur Rhône in France, and is certified biocompatible per EN-ISO 10993-1:2009/AC:2010:

• Non-mutagenic.
• Non-cytotoxic.
• Not induce any erythema or edema reactions.
• Not a sensitizer.
• Not cause systemic toxicity.

The product is in compliance with ISO Standards:

• EN-ISO 20795-1:2013 (Dentistry – Base Polymers – Part 1: Denture Base Polymers)

NOTES:

1Material properties can vary with part geometry, print orientation, print settings and temperature.
2Data refers to post-cured properties obtained after exposing green parts to 108 watts each of Blue UV-A (315 – 400 nm) and UV-Blue (400 – 550 nm) light, in a heated environment at 60 °C (140 °F), with six (6) 18W/71 lamps (Dulux L Blue) and six (6) 18W/78 lamps (Dulux blue UV-A).