





*RM case study*

Case name	<b>Soft and Flexible Breathing Masks Studies</b>		
Dimensions in mm (L x W x H)	LBH 70x70x50 mm Wall thickness 1.5 to 2.0 mm		
Application	Medical Technology - Design studies		
RM process	Stereolithography		
Software	Pro-E for construction & Standart RP/RM Software		
System	3D Systems Viper si <sup>2</sup>		
Material	FlexSL® SE-25		
Lead time (hours/days)	n.a.		
Costs	n.a.		
Surface finish	Normal post-processing & laquer technique with FlexSL® SE-25 to obtain a smooth, edge-free surface		
Mechanical properties	FlexSL® SE-25 properties:  Appearance - clear light amber Density [g/cm <sup>3</sup> ] - tba Tensile (Young's) Modulus [MPa] - 20 Tensile Strength at break [MPa] - 2,5 Elongation at break [%] - 14,3  Additional information, TDS on <a href="http://www.3mat.de">www.3mat.de</a>		
Thermal properties	n.a.		
Any additional info	Biocompatible stereolithographic material as functional design prototypes for medical technology applications		
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	organisation	<b>3mat</b>	
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<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <p><i>Left Picture:</i> Normal post-processing (right part on tabletop) &amp; laquer technique with FlexSL® SE-25 (left part) to obtain a smooth, edge-free surface</p> <p><i>Right Picture:</i> Bending of the flexible, soft material</p>			