MODEL 3D PRO GREY

Model 3D Pro from Garreco Print is perfect for manufacturing highly accurate dental models, dies and aligner models. This high accuracy colored resin is optimized for Mask Stereolithography (MSLA), Liquid Crystal Display (LCD), Digital Light Processing (DLP) and Stereolithography (SLA) 3D-printers. This resin has been developed and validated in collaboration with dental companies and professionals in order to meet the high expectations in this disruptive market.

PRODUCT DESCRIPTION

Model 3D Pro Grey is a matte, grey opaque colored photopolymer. Its matte surface finish accentuates depth and detail in dental models, which accommodates a perfect view on undercuts and other important markers. In addition, 3D-printed models from Model 3D Pro are excellent for crown & bridge build-ups. 3D-printed parts from this material have exceptional dimensional stability and extremely low shrinkage during printing. Model 3D Pro is easy to use on all open source SLA, MSLA and DLP 3D-printers in the range of 385 – 420nm. This material has excellent properties like low shrinkage and low odor, accuracy and dimensional stability, making it perfect for the production of dental models, C&B, thermoforming and aligner models.

KEY BENEFITS

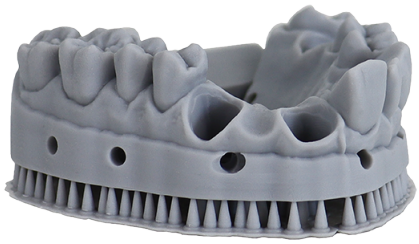
- Excellent dimensional stability
- High detail and matte surface
- Low shinkage
- Low odor

3D-PRINTER COMPATIBILITY

- Asiga® Max and 4K
- Ackuretta Dentiq
- Photon® and Phrozen® Series
- Open 385 - 420nm LCD /MSLA, DLP and SLA 3D-printers

PRODUCT CONFIGURATIONS

Model 3D Pro Grey 1 kg or 500 grams



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MODEL 3D PRO GREY TECHNICAL DATA

Liquid Properties			
Appearance	Opaque grey liquid	EC	4.62 mJ/cm2
Viscosity	700 cps at 25° C	Dp metric	0.14 mm
Density	1.18 g / cm3	Dp imperial	5.53 mils

Polymer Properties			
Mechanical properties		**30 minutes high power LED curing at 40°C**	
Description	**ASTM Method**	**Metric**	**Imperial**
Tensile Strength	D638M	49 MPa	7.1 ksi
Tensile Modulus	D638M	2.3 GPa	334 ksi
Elongation at Break	D638M	4.1%	4.1%
Flexural Strength	D790M	89 MPa	12.9 ksi
Flexural Modulus	D2240	2.4 GPa	348 ksi
Shore D Hardness	D2240	85	85
Water Sorption	D570-98	0.45%	0.45%
Linear Shinkage During Printing	Internal Method	0.30%	0.30%
Linear Shinkage During UV-Curing	Internal Method	0.40%	0.40%

These values may vary and depend on individual machine processing and post-curing. Model 3D Pro is not tested on biocompatibility, therefore the material should not be used for applications inside the human body.

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