DIMENGEL 100

Dimengel 100 (DIM 100) is a proprietary photo polymeric acrylic gel that enables models to cure while printing, delivering solid objects straight off the printer. This unique material facilitates support-less, non-vertical parts, tops, and ceilings. The objects are hollow, translucent and can be illuminated.

Properties of DIMENGEL 100 Base Material

	Method	Metric Units		Imperial Units	
Tensile strength*	ISO 527	MPa	47	psi	6,820
Elongation at break*	ISO 527	%	17	%	17
Modulus of elasticity*	ISO 527	MPa	2,380	psi	345,200
Flexural strength*	ISO 178	MPa	196	psi	28,430
Flexural modulus*	ISO 178	MPa	6,410	psi	930,000
HDT* @0.45 MPa	ISO 75/ASTM D 648	°C	51 - 55	°F	124-131
Izod Notched Impact*	ISO 180	KJ/m^2	2.3 - 2.6	$Ft \cdot lb/inch^2$	1.1-1.3
Shore Hardness (D)	ASTM D2240	Scale D	80 - 85	Scale D	80-85

Coating and Finishing

Whatever your application, you can achieve an amazing array of effects using a wide variety of coating and finishes:

- SAV – self-adhesive vinyl
- Car / body filler
- Polyester
- Epoxy
- Polyurethane
- Fiberglass

Regulation Compliancy

- Compliant with 1907/2006/EEC regulation 2006 ("REACH")
- Compliant with Regulation (EC) No 1272/2008 ("CLP")
- Compliant with US the Toxic Substances Control Act (TSCA) regulations
- Does not contain any chemicals listed on California Prop.65

Fire Resistance

Dim 100 prints are compliant with the following standards:
- DIN 4102 – class B2
- ASTM D635[2]
- UL94-HB[2]

* All measurements were done on lab specimens of cured material
** Internal lab testing

Massivit 3D Printing Technologies Ltd.
11 Pesakh Lev St. Lod 712936. Israel. Tel: +972-8-6519486, Fax: +972-8-6900758
www.massivit3d.com