

# DIMENGEL 90

Dimengel 90 (DIM 90) is a cost-effective, 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 hollow parts, tops, and ceilings.

## Properties of DIMENGEL 90 Base Material

	Method	Metric Units		Imperial Units	
Tensile strength*	ISO 527	MPa	46	psi	6,672
Elongation at break*	ISO 527	%	20	%	20
Modulus of elasticity*	ISO 527	MPa	2,320	psi	336,342
Flexural strength*	ISO 178	MPa	150	psi	21,756
Flexural modulus*	ISO 178	MPa	4,720	psi	683,998
HDT* @0.45 MPa	ISO 75/ASTM D 648	°C	45 – 50	°F	113-122
Izod Notched Impact*	ISO 180	Kj/m <sup>2</sup>	2.2 - 2.3	Ft.lb. /in <sup>2</sup>	1.05-1.1
Shore Hardness*	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 90 prints are compliant with the following standards:

- Din 4102 – class B2
- ASTM D635<sup>2</sup>
- UL94-HB<sup>2</sup>

\* All measurements were done on lab specimens of cured material

\*\* Internal lab testing

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