

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 | 50 - 51 | °F | 122-124 |
| Izod Notched Impact* | ISO 180 | KJ/m ² | 2.3 - 2.6 | Ft-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 D635²
- UL94-HB²

* All measurements were done on lab specimens of cured material

** Internal lab testing

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