

DIMENGEL 110

Dimengel 110 (DIM 110) is a proprietary photo polymeric acrylic gel enabling high-resolution 3D printing of 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 110 Base Material

	Method	Metric Units		Imperial Units	
Tensile strength*	ISO 527	MPa	42	psi	6,100
Elongation at break*	ISO 527	%	10	%	10
Modulus of elasticity*	ISO 527	MPa	2,595	psi	376,400
Flexural strength*	ISO 178	MPa	150	psi	21,800
Flexural modulus*	ISO 178	MPa	4,715	psi	684,000
HDT* @0.45 MPa	ISO 75/ASTM D 648	°C	50	°F	122
Izod Notched Impact*	ISO 180	Kj/m ²	2.3-2.4	Ft.lb. /in ²	1.10-1.14
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 110 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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