



DIMENGEL 300

Dimengel 300 (DIM 300) is a thermoset photo polymer material ideal for production of large, transparent 3D printed parts. DIM 300 facilitates transparent prototype housings, concept models, interior design and architectural elements, scenic displays, design verification, and a range of advertising applications.

For optimal results, parts should be polished or lacquered according to Massivit 3D's recommended post processing methods.

As with Massivit's range of advanced, proprietary materials, DIM 300 enables ultra-fast production of large, complex parts that instantly cure during printing, providing ready-made solid parts straight off the printer with little-to-no need for internal support structures.

Character	Method	Metric Units		Imperial Units	
Tensile strength*	ISO 527	MPa	40	psi	5,800
Elongation at break*	ISO 527	%	4.5	%	4.5
Elasticity modulus	ISO 527	GPa	1.5	psi	217,556
Flexural strength*	ISO 178	MPa	53	psi	7,687
Flexural modulus*	ISO 178	MPa	1,760	psi	255,266
Izod Impact* (Notched)	ISO 180	J/m	19.2 - 20.8	ft-lbf/in	0.36 - 0.39
Glass transition, Tg	ASTM D3418	°C	65	°F	149
HDT* @ 0.45 MPa	ISO 75-2	°C	51 - 55	°F	124 - 131
Density	ASTM D792	g/cm ³	1.05	lb/ft ³	65.5
Hardness (Shore D)	ASTM D2240	Shore D	73	Shore D	73
Color		Transparent			

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

Coating and Finishing

A variety of spray coatings are available for various applications.

In particular, Massivit 3D recommends Clear Spray coating as a post processing method.

Regulation Compliancy

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

Precautionary Statement

Massivit 3D printing technologies maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.