MASS!V!T



DIMENGEL 90

Dimengel 90 (DIM 90) is a cost-effective, photo polymer 3D printing gel that enables parts to cure while printing, delivering solid objects straight off the printer. This unique material facilitates production of complex geometries, including nonvertical parts and ceilings, with practically no need for support structures.

| Character | Method | Metric Units | | Imperial Units | |
|------------------------|---------------------|--------------|-------------|----------------|-------------|
| Tensile strength* | ISO 527 | MPa | 46 | psi | 6,670 |
| Elongation at break* | ISO 527 | % | 20 | % | 20 |
| Elasticity modulus | ISO 527 | GPa | 2.3 | psi | 336,340 |
| Flexural strength* | ISO 178 | MPa | 150 | psi | 21,760 |
| Flexural modulus* | ISO 178 | MPa | 4,720 | psi | 684,000 |
| Izod Impact* (Notched) | ISO 180 | J/m | 17.6 - 18.4 | ft·lbf/in | 0.33 - 0.35 |
| Glass transition, Tg | ASTM D3418 | °C | 64.3 | °F | 147.7 |
| HDT* @ 0.45 MPa | ISO 75 ASTM D648 | °C | 51 - 55 | °F | 124 - 131 |
| Density | | g/ml | 1.06 | lb/ft³ | 66.2 |
| Hardness (Shore D) | ASTM D2240 | Shore D | 80 - 85 | Shore D | 80 - 85 |
| Color | | Gray | | | |

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

Coating and Finishing

DIM 90 supports a wide array of 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")
- Does not contain any chemicals listed on California Prop.65
- Compliant with the US Toxic
 Substances Control Act (TSCA)
 regulations

Fire Resistance

Dim 90 prints are compliant with the following standards:

- Din 4102 class B2
- ASTM D635²
- UL94 HB²

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.

Massivit 3D Printing Technologies Ltd 11 Pesakh Lev St. Lod 712936. Israel.

Tel: +972-8-6519486, Fax: +972-8-6900758 www.massivit3d.com



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^{**} Internal lab testing.