



DIMENGEL WB

Dimengel WB (Water Breakable) is a proprietary photopolymer material specially designed for the Massivit 10,000 printer equipped with LED curing process. This water breakable material enables the creations of parts with complex geometries, and printing without support.

It is a breakaway material that can be removed by immersing into water bath, or peeled after exposure to water fog system, or by any other mechanical means.

Character	Method	Metric Units		Imperial Units	
Tensile strength*	ISO 527	MPa	15	psi	2,175
Elongation at break*	ISO 527	%	1	%	1
Elasticity modulus	ISO 527	GPa	2.3	psi	333,587
Flexural strength*	ISO 178	MPa	43	psi	6,237
Flexural modulus*	ISO 178	GPa	5.7	psi	826,715
Izod Impact* (Notched)	ISO 180	J/m	19.2 – 21.6	ft.lbf/in	0.36 - 0.41
Glass transition, Tg	ASTM D3418	°C	101	°F	213.8
HDT* @ 0.45 MPa	ISO 75-2	°C	83 - 88	°F	181 - 190
Density	ASTM D792	g/cm ³	1.2	lb/ft ³	75
Hardness (Shore D)	ASTM D2240	Shore D	75	Shore D	75
Color	-	Off White			

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

** Internal lab testing.

Storage

Material should be stored in a dry place in the sealed original container at temperatures between +2°C and +40°C. Under these storage conditions, the shelf life is 1 year. The product should not be exposed to direct sunlight.

Regulation Compliancy

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

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.