

Technovit 3040 - THE REPLICA

Technovit 3040 is a two-component resin based on methylmethacrylate and consists of a powder and a liquid component. It can be supplied in yellow and black. It is used to create high-precision impression that are used to inspect and measure surfaces.

DELIVERY UNITS

Art.-No.	Description	Quantity
64708806	Technovit 3040 yellow, Powder	1 x 1.000 g
64708807	Technovit 3040 yellow, Powder	1 x 2.000 g
64708808	Technovit 3040 yellow, Powder	1 x 10.000 g
64708813	Technovit 3040 black, Powder	1 x 1.000 g
64708814	Technovit 3040 black, Powder	1 x 2.000 g
64708815	Technovit 3040 black, Powder	1 x 10.000 g
66022678	Technovit Universal Liquid	1 x 500 ml
66022679	Technovit Universal Liquid	1 x 5.000 ml

TECHNICAL DATA

Technovit 3040	
Colour	yellow black
Area of application	Modelling and Impression
Components	Powder/Liquid
Mixing ratio	...
Application Time (min.)	2
Curing time (min.)	5 Quantity 15g
Peak temperatur by curing	110 °C
Ballhardness N/mm ² (DIN 53456)	135
Temperature stable	95 °C
Solubility	will swell only
Specific weight g/cm ³ (DIN 53479)	1,18
Impact Strenght DIN 13307 KJ/m ²	7,1
Flexural Strenght	96
Compressive Strenght	110
Water absorption by vol. % DIN 53495	0,43
Linear shrinkage %	1,9
Shrinkage by volume (%)	5,7
Refraction Index (monomer)	1,419
Storage temperature	20-22 °C
Storage time (year)	3
Linear thermal extension coefficient	111 x 10 ⁻⁴
Modulus of Elasticity N/mm ² or Mega Pascal	2000-2300

Acid resistance			
Testing medium	5h / RT	3 days / RT	5h / 100 °C
con. hydrochloric acid hydrochloric acid 10%	consistent consistent	consistent consistent	consistent consistent
con. sulfuric acid sulfuric acid 10%	demoralized consistent	demoralized consistent	demoralized consistent
con. phosphoric acid phosphoric acid 10%	demoralized consistent	demoralized consistent	demoralized consistent
con. nitric acid nitric acid 10%	demoralized consistent	demoralized consistent	demoralized consistent
aqua regia	consistent	consistent	consistent
con. formic acid formic acid 10%	demoralized consistent	demoralized consistent	demoralized consistent
con. acetic acid acetic acid 10%	demoralized consistent	demoralized consistent	demoralized consistent
con. sodium hydroxide diluted sodium hydroxide	consistent consistent	affected consistent	affected consistent
con. caustic potash diluted caustic potash	consistent consistent	affected consistent	affected consistent

Chemical resistance to various substances	
Testing medium	Consistency
acetone	not consistent
formic acid 10%	conditionally consistent
fuel	permanently consistent
butyl acetate	not consistent
cyclohexane	permanently consistent
dekalin	permanently consistent
diesel	permanently consistent
dimethylformamide - DMF	conditionally consistent
1,4-dioxane	shortly consistent
con. acetic acid	shortly consistent
acetic acid 10%	conditionally consistent
acetic acid 5%	conditionally consistent
ethanol	consistent
ethyl acetate	not consistent
hydrofluoric acid 50%	shortly consistent
fruit juice	permanently consistent
glycerine	permanently consistent
glykol	permanently consistent
fuel oil	permanently consistent
heptane	permanently consistent
hexane	permanently consistent
potassium hydroxide 50%	permanently consistent
potassium hydroxide 10%	permanently consistent
methanol	consistent
methylethylketone - MEK	not consistent
methylene chloride	not consistent
methylmethacrylate - MMA	not consistent
paraffin oil	permanently consistent
perchloroethylene - PER	not consistent
petroleum	permanently consistent
con. phosphoric acid	permanently consistent
phosphoric acid 10%	permanently consistent
isopropanol	conditionally consistent
propanol	conditionally consistent
con. hydrochloric acid	permanently consistent
hydrochloric acid 5%	permanently consistent
con. sulphuric acid	shortly consistent
silicon oil	consistent
cooking oil/-fat	permanently consistent
styrol	not consistent
tetrahydrofuran - THF	not consistent
toluene	consistent
tetraalin	permanently consistent
trichlorethylene - TRI	not consistent
hydrogen peroxide 30%	permanently consistent
brandy	consistent
tartaric acid	shortly consistent
citric acid 10%	permanently consistent

not consistent	is attacked / solubilized / swelled immediately
shortly consistent	consistent for 1 to 3 minutes
conditionally consistent	5 to 60 minutes
consistent	1 hour to 2 days - no visible changes
permanently consistent	no changes at all - even after weeks

Zubehör HISTOLOGIE - THE USEFULLIES

DELIVERY UNITS

Art.-No.	Description	Quantity
64708996	MIKROTOM-Knifeholder 17 cm	1 pcs.
64708997	MIKROTOM-Knifeholder 22 cm	1 pcs.
64708999	Histoknife H	1 x 30 pcs.
64708998	Histoknife H	1 x 100 pcs.
64711225	Histoform N	1 pcs.
64708992	Histoform Q - Teflon	1 pcs.
64708991	Histoform S - Teflon	1 pcs.
64712817	HISTOBLOC for Histoform N	1 x 50 pcs.
64708995	HISTEBLOC for Histoform S	1 x 100 pcs.
64708805	Technovit 3040 combination pack 100g/80ml	1 pcs.
64712819	Mounting Press	1 pcs.
64712818	PE-Foils 75 x 25 mm	1 x 200 pcs.
66031157	Insert for Specimen holder M	1 pcs.
66031158	Specime holder H	1 pcs.
64708955	Embedding mould 25MM	3 pcs.
66009903	Insert for Embedding form 25mm (Histo)	3 pcs.
66021108	Dosing cup Assortment Histo	2 pcs.