GB

Dreve

Dreve Dentamid

Castdon system

Resin pouring technique

60 Jahre
Innovation
aus Tradition

The prosthesis pouring technique with Castdon resins and the special pouring flasks is a time-saving, economical denture pouring procedure for the price and quality conscious dental technique of today.

All components of the system are coordinated with each other, the handling of this technique is easy and the results convince in regard to function, aesthetics and exact fitting.

Complicated grinding work is not necessary as no bite increase occurs. After an accurate wax modelling the denture can be taken out of the form and is nearly finished, apart from a slight post processing that is reduced to a minimum.

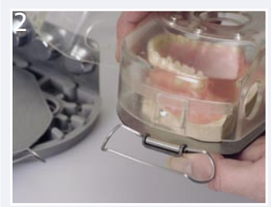
Castdon resin

Auto-polymerising, cadmium-free pouring resin with barbiturate hardener system for the production of total and partial dentures, clinically proven for many years.

Characteristics

- low shrinkage
- excellent flow characteristics
- break-resistant
- colour stable
- minimum content of residual monomer
- also suitable for the pressure technique, underlining and repairs
- successfully tested for biocompatibility

- manufacture wax model as usual
- functional edges must be free of wax
- adjust model in flask



- fix model onto bottom plate by use of wax
- close flask with brackets
- check sealing for correct fit

- shake Siliform before use
- take 150 ml of each component and mix homogenously by use of spatula

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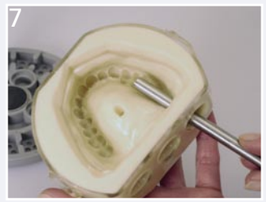
Resin pouring technique

· fill flask from top in a thin jet

· cure silicone under the same pressure as will be done later with the resin (e. g. Pneupress T)
· curing approx. 30 min.

· remove bottom plate and deflask the model

· pierce two pouring canals into the dorsal area of the lower jaw
· one additionally canal has to be pierced in the upper jaw, in central position



· remove wax from teeth using the flask bottom plate
· abrade teeth and apply retention
· set teeth back into the duplication form
· no glueing of teeth is necessary due to the moist surface of the silicone

· application of Castdon Bonding between tooth and basis strengthens connection

· put model into warm water, afterwards dry the surface
· insulate by use of Isolat film
· only insulate with one layer!

· set model back into duplication
· close flask with bottom plate
· fill dosing aids (the same filling height guarantees an optimal mixing ratio, 17 g powder/11 ml liquid for one denture)

· mix Castdon homogenously
· fill in by a thin jet only through one canal

· cure inside the polymerisation unit (e. g. Polymax 1) for about 25 min. at a temperature of 45 °C
· fill with water up to the edge of the flask
· the resin-filled funnels should not be set under water

· remove the bottom plate after polymerisation
· deflask the model

· denture can be removed easily from the model

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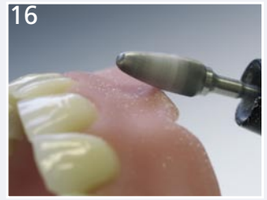
Resin pouring technique

· further treatments are reduced to:
removing of spill-overs...



... adding of the finishing touches by use of sandpaper

... and polishing – completed!

Areas of indication

· total prosthodontics
· partial prosthodontics
· implant prosthodontics
· immediate prosthodontics
· relinings
· repairing
· completion

Tabular basic data

· max. height of model 20 mm
· amount of material Siliform 2 x 150 ml
· curing Siliform 30 min
· curing Gelon 45 min
· amount of material required for each denture:
17 g Polymer, 11 ml Monomer
· polymerisation time: resin 25 min.,
polymerisation temperature 45 °C,
pressure range 2.5-5.0 bar

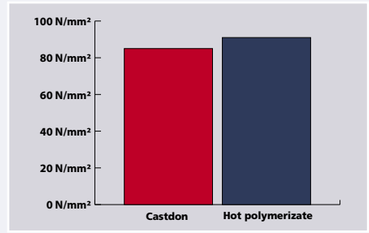
approx. 30 minutes pure working time

Components

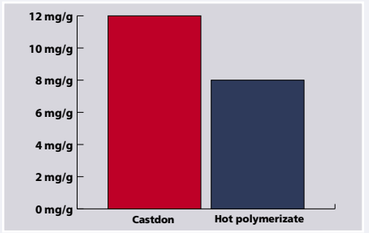
Polymer
· polymethylmetacrylate-copolymer
· barbiturate acid devirate
· colour pigments

Monomer
· methylmetacrylate
· quaternary sal ammoniac
· stabiliser
· fastener
· vulcaniser

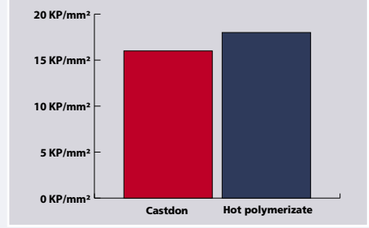
Technical Information



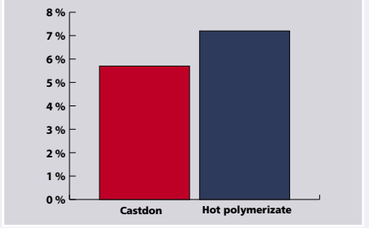
Bending strength



Residual monomer after 48 h at 37 °C



Hardness



Shrinkage

Case Studies

Castdon pouring technique

Castdon Starter Kit

Comprehensive complete starter package in two colour versions with all necessary components for beginners.

D-3790 Castdon Starter Kit, pink-transparent

Content

- Castdon flask, transparent
- Castdon powder, pink-transparent, 0.75 kg tub
- Castdon Liquid, 0.5 l bottle
- Castdon Bonding, 20 ml bottle
- Siliform, 2 x 850 ml (1 kg) bottles
- Isolat film, 1000 ml bottle
- 1 canal piercing instrument, Ø 8 mm
- dosing aids

D-3792 Castdon Starter Kit, pink-opaque

Content

- Castdon flask, transparent
- Castdon powder, pink-opaque, 0.75 kg tub
- Castdon Liquid, 0.5 l bottle
- Castdon Bonding, 20 ml bottle
- Siliform, 2 x 850 ml (1 kg) bottles
- Isolat film, 1000 ml bottle
- 1 canal piercing instrument, Ø 8 mm
- dosing aids

Castdon powder

D-3873	Castdon powder	pink-transparent	0.75 kg	tub
D-3874	Castdon powder	pink-transparent	1.2 kg	tub
D-3876	Castdon powder	pink-transparent	4.0 kg	bucket
D-3884	Castdon powder	pink-opaque	0.75 kg	tub
D-3887	Castdon powder	pink-opaque	1.2 kg	tub
D-3879	Castdon powder	transparent	0.75 kg	tub

Veins

Viscose fibres to be mixed into denture resins for individual design of a veined appearance.

D-3904-1	Veins	dark red	7 ml bottle
D-3904-2	Veins	blue	7 ml bottle

Castdon Liquid

Monomer for Castdon and DentureArt resins.

D-3905	Castdon Liquid	150 ml bottle
D-3865	Castdon Liquid	0.5 l bottle
D-3867	Castdon Liquid	1 l bottle

Castdon Bonding

Liquid for the perfect bonding between highly vulcanising denture teeth and auto polymer resins.

D-3877	Castdon Bonding	20 ml bottle

Castdon flask

Professional pouring flask with transparent upper part, stainless steel bottom plate with integrated chambers for teeth dewaxing, incl. canal piercing instrument, Ø 8 mm.

D-3803	Castdon flask	transparent

Canal piercing instrument

For Agar-Agar gel and silicone.

D-3872	Canal piercing instrument	Ø 8 mm	1 piece

Castdon dosing aids

Measuring cups for a perfect mixing ratio of 2:1 for all types of Castdon resins.

D-38092	Castdon dosing aids	2 pieces

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Siliform
Addition-vulcanising, thin-flowing VPS silicone for embedding dentures when using the Castdon technique. Thanks to special contents Siliform has a unique material surface and guarantees an easy demoulding of the finished denture.

Characteristics
- excellent reproduction of details
- almost no shrinkage, therefore perfect reproduction of the wax set-up
- slightly oily surface film, therefore excellent flow characteristic of the pouring resin
- final hardness 14 Shore A
- component A=white, B=yellow

D-38605	Siliform	2 x 850 ml	(1 kg)	bottles A+B
D-38607	Siliform	2 x 5.1 l	(6 kg)	canister A+B

Isolat film
Heat-resistant, film-forming insulating agent on the basis of alginate for smooth surfaces free of pores with excellent separating effect.

Suitable for the insulation
- resin/plaster
- plaster/plaster
- silicone/plaster

D-4304	Isolat film	1 l bottle
D-4303N	Isolat film	5 l canister

Gelon
High quality duplicating gel on the basis of Agar-Agar.

Characteristics
- especially hard and stable in form
- low shrinkage
- short curing times
- suitable for model casting and denture pouring technique

D-38602	Gelon green	6 kg bucket
D-38601	Gelon transparent	6 kg bucket

DentureArt

DentureArt
A further development of the Castdon pouring system. DentureArt is based on a highly opaque basis resin and different intensive colours that harmonise with each other for the creative reproduction of a life-like gingiva. This product offers the user unlimited possibilities in order to meet all state of the art aesthetical demands. DentureArt materials can perfectly be integrated into the mouth. A reliable cover of the cervix dentis and constructive parts is achieved. For the development of this system the famous dental technician Jan Schünemann was exclusively at our disposal for advice. His name stands for the innovative character of the DentureArt product line.

Characteristics
- highly opaque basis resin
- different colours for the individual characterisation
- intensive colours that harmonise with each other
- absolutely stable in colour
- low polymerisation shrinkage
- low costs of investment

DentureArt System Pack
Complete basic assortment with all necessary components and comprehensive accessories for beginners. The assortment is supplied in a stable resin case. With Castdon Base a production of about 10 DentureArt prostheses is possible.

D-3900 DentureArt System Pack

Content

Castdon Base powder	natural opaque	190 g	tub
Castdon Color powder	margin white	35 g	tub
Castdon Color powder	gingiva red	35 g	tub
Castdon Color powder	vein blue	35 g	tub
Castdon Intense powder	red	8 g	tub
Castdon Intense powder	white	8 g	tub
Castdon Intense powder	yellow	8 g	tub
Castdon Intense powder	brown	8 g	tub
Castdon Color Monomer modelling liquid		50 ml	bottle
Castdon Liquid		150 ml	bottle
Veins viscose	blue	7 ml	bottle
Veins viscose	dark red	7 ml	bottle

- Castdon dosing aids, paint brush, mixing spatula, graduated beaker
- illustrated colour booklet with detailed application examples

Castdon Base powder
Highly opaque denture resin.

D-3901	Castdon Base powder	natural opaque	190 g	bottle
D-3902	Castdon Base powder	natural opaque	0.75 kg	tub
D-3903	Castdon Base powder	natural opaque	1.2 kg	tub

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Castdon Liquid
Monomer for Castdon and DentureArt resins.

D-3905	Castdon Liquid		150 ml	bottle
D-3865	Castdon Liquid		0.5 l	bottle
D-3867	Castdon Liquid		1 l	bottle

Castdon Color
It enables the lifelike reproduction of different gingiva colours:
- gingiva red for the coloured design of soft gingiva parts
- margin white for the realisation of a tight and healthy gingiva at the cervix dentis
- vein blue for the characterisation of blue gingiva parts

D-3902-1	Castdon Color	gingiva red	35 g	bottle
D-3902-2	Castdon Color	margin white	35 g	bottle
D-3902-3	Castdon Color	vein blue	35 g	bottle

Castdon Intense
It offers options of individualisation. Four intensive colours permit all possibilities to reproduce lifelike gingiva.

D-3903-1	Castdon Intense	red	8 g	bottle
D-3903-2	Castdon Intense	white	8 g	bottle
D-3903-3	Castdon Intense	yellow	8 g	bottle
D-3903-4	Castdon Intense	brown	8 g	bottle

Veins
Viscose fibres to be mixed into resins for the individual design of a veined appearance.

D-3904-1	Veins	dark red	7 ml	bottle
D-3904-2	Veins	blue	7 ml	bottle

Castdon Color Monomer
Modelling liquid to mix Castdon Color and -Intense Powder.

D-3906	Castdon Color Monomer	50 ml	bottle

Lightpaint On

Lightpaint On by Klaus Müterthies
Light-curing colours for the authentic and individual surface characterisation of resins. The set contains 9 original Müterthies ceramic colours and 3 gingiva colours to paint gingiva parts. All colours can be mixed with each other with unlimited scope for designs. The dual curing system of auto-polymerisation (by mixing colour powder with liquid) and light polymerisation (at a wave length of 300-500 nm) guarantees a long processing width and assures the curing of very opaque colour mixtures. The complete set is supplied in a high-quality wood case.

For the individualisation of
- facings in the C&B technique
- denture parts in the partial and complete prosthetics
- standard resin teeth
- high-quality and natural-looking long-term temporaries

D-38236 Lightpaint On Set by Klaus Müterthies

Content
- 12 tubs with 2 g colour powder each, one tub per colour

- white	- orange	- black
- vanilla	- dark orange	- bordeaux
- khaki	- chestnut	- pink
- maize	- pigeon blue	- violet

- 4 brushes in different sizes
- 20 ml bottle Liquid (mixing liquid)
- 20 ml bottle Surface (surface sealing)
- 50 ml bottle Cleaner (brush cleaner)
- mixing palette
- thumb palette
- detailed working instructions with photos

Lightpaint On colour powder
Teeth and gingiva colours to characterise resin.

D-38237-1	white	2 g tub
D-38237-2	vanilla	2 g tub
D-38237-3	khaki	2 g tub
D-38237-4	maize	2 g tub
D-38237-5	orange	2 g tub
D-38237-6	dark orange	2 g tub
D-38237-7	chestnut	2 g tub
D-38237-8	pigeon blue	2 g tub
D-38237-9	black	2 g tub
D-38237-10	bordeaux	2 g tub
D-38237-11	pink	2 g tub
D-38237-12	violet	2 g tub

Lightpaint On

Liquid
Mixing liquid for Lightpaint On colour powder. Due to variable mixing colour intensity can vary from watery transparent to opaque.
Polymerisation time 3-5 minutes.

D-38238 Liquid 20 ml bottle

Cleaner
Special cleaning liquid for brushes.

D-38240 Cleaner 50 ml bottle

Surface
Surface sealing for Lightpaint On characterisations. The sealing with Surface provides a smooth and homogenous surface and increases the durability of the colouring inside the mouth.
Polymerisation time 3-5 minutes.

D-38239 Surface 20 ml bottle

Mixing palette
With lid and insert to mix Lightpaint On colour powders with Liquid. The mixing palette is impervious to light.

D-38243 Mixing palette

Sealing laquers

Plaquit
Light curing 1-component lacquer for coating e. g. built up splints or dentures.
Polymerisation time 3-5 minutes.

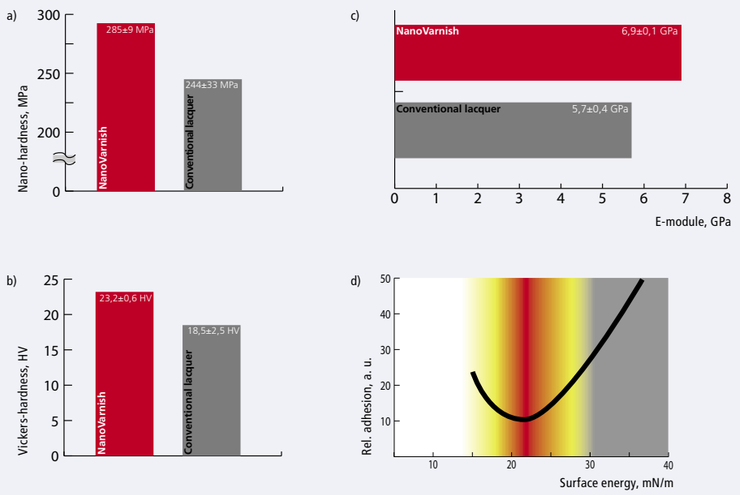
D-38124 Plaquit 20 ml bottle with brush insert

D-38123 Plaquit 50 ml bottle with brush insert

NanoVarnish
Light-curing one-component lacquer on the basis of especially structured nano-particles.

Characteristics
- ideally low surface energy minimises the sticking of germs
- very thin layers thanks to optimum flowing characteristics
- extremely firm bonding with the basis resin
- very transparent
- easy processing
- curing in all current dental light-polymerisation units in the spectral area of 350-500 ñm

D-38900 NanoVarnish
20 ml bottle with drop measurer
incl. 10 MicroBrush



Comparison of the features of NanoVarnish with conventional lacquer systems

a) Nano-hardness
b) Vickers-hardness
c) Nano-elastic modulus
d) Baier-curve

MicroBrush
Application aid for a homogeneous and thin application of Nano-Varnish.

D-38901 MicroBrush 10 pieces

Lab units

Labormat SD

Large, solid boiling-out unit for up to 12 flasks.
Also suitable for polymerisation of denture resins.

Advantages
- · high-grade steel housing
- · continuously adjustable temperature from 0-95 °C
- · individual spraying-time adjustment with a 6 minute timer
- · 24-h timer
- · hand spray gun included
- · practical sliding lid
- · button for short time function
- · optionally installable or movable on castors

Optionally available
- · flask baskets for 3 flasks (item no. 3604)
- · 4 flask baskets fit into the Labormat SD

Technical data

· measurement	H=940, W=635, D=660 mm
· weight	75.0 kg
· power consumption	3.1 KW
· water filling	50 l
· temperature range	0-95 °C

D-3601 Labormat SD, 230 V/50 Hz
Inclusive
- · water run-off/supply hose
- · cleaning brush
- · castors
- · flask plates
- · collecting tank for waste water

Special voltage available on request

Filter Mats

For collecting wax residues, plaster residues etc. when boiling-out in Labormat units.

D-36018 Filter Mats 18 x 60 cm 10 pieces
- · 2 Filter Mats/Labormat SD
- · 1 Filter Mats/Labormat TH

Flask Basket for Labormat units

Made of V2A, with plastic handle for 3 flasks.

D-3604 Flask Basket
- · 4 flask baskets fitting into the Labormat SD
- · 2 flask baskets fitting into the Labormat TH

Labormat TH

Compact boiling-out unit for up to 6 flasks.
Also suitable for polymerisation of denture resins.

Advantages
- · high-grade steel housing
- · continuously adjustable temperature from 0-95 °C
- · individual spraying-time adjustment with a 6 minute timer
- · hand spray gun included
- · practical two parted lid
- · button for short time function

Optionally available
- · flask baskets for 3 flasks (item no. 3604)
- · 2 flask baskets fit into the Labormat TH

Technical data

· measurement	H=500, W=570, D=400 mm
· weight	38.0 kg
· power consumption	3.2 KW
· water filling	17 l
· temperature range	0-95 °C

D-3603N Labormat TH, 230 V/50 Hz
Inclusive
- · cleaning brush
- · flask plates

Special voltage available on request

Base

With castors for Labormat TH.
Measurement H=435, W=590, D=370 mm.
Special measurements on request.

D-3607 Base

Unisol E

Effective descaler used for the care of strongly used wax boiling-out units (e. g. Labormat).

D-4383 Unisol E 2.5 kg tub

Unisol W

Well proven wax-solving additive, now with improved recipe, fo a quicker and more intense cleaning of models in wax boiling-out units.

D-4392 Unisol W 2 x 1 l bottle
D-4393 Unisol W 5 l canister

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Lab units

Polymax 1

Pressure polymerisation unit with a temperature of 95 °C for 1 brass flask including clamp resp. 2 Castdon flasks.

Technical data

· measurement	H=225, W=295, D=315 mm
· pressure pot	Ø 160 mm
· pressure pot depth	110 mm
· weight	10.2 kg
· power consumption	450W at 115/230V
· pressure min/max	3/5 bar
· temperature range	up to 95 °C

D-3429	Polymax 1 95 °C, red, 230 V 50/60 Hz
D-3429-A	Polymax 1 95 °C, red, 115 V 50/60 Hz
D-34291	Polymax 1 95 °C, silver, 230 V 50/60 Hz
D-34291-A	Polymax 1 95 °C, silver, 115 V 50/60 Hz

Inclusive
Pressure hose and water drain hose

Special voltage available on request

Polymax 1 (120 °C)

Identically constructed unit like the Polymax 1, however, with a temperature range up to 120 °C.

D-3428	Polymax 1 120 °C, red, 230 V 50/60 Hz
D-3428-A	Polymax 1 120 °C, red, 115 V 50/60 Hz
D-34281	Polymax 1 120 °C, silver, 230 V 50/60 Hz
D-34281-A	Polymax 1 120 °C, silver, 115 V 50/60 Hz

Inclusive
Pressure hose and water drain hose

Special voltage available on request

Polymax

Advantages

- continuously adjustable temperature for hot and cold water polymerisation
- 90 minutes timer
- variably adjustable air pressure up to max. 5 bar (Polymax 5 up to max. 6 bar)
- automatic safety-sealing-system
- control by digital indication of time and temperature, pressure through manometer
- pressure pot made of special coated aluminium
- external housing made of hard-wearing PU
- housing cover made of stainless steel
- maintenance-free technique
- water drain valve
- when heating is switched off, unit is suitable for pressure embedding
- optionally available: perforated insert for models and repairs (item no. 34251 for Polymax 1, item no. 34252 for Polymax 3)

Polymax 3

Pressure polymerisation unit with a temperature range of up to 95 °C, for 3 brass flasks including clamp resp. 6 Castdon flasks.

Technical data

· measurement	H=440, W=295, D=315 mm
· pressure pot	Ø 160 mm
· pressure pot depth	300 mm
· weight	15.1 kg
· power consumption	900W at 115/230V
· pressure min/max	3/5 bar
· temperature range	up to 95 °C

D-3422	Polymax 3, red, 230 V 50/60 Hz
D-3422-A	Polymax 3, red, 115 V 50/60 Hz
D-34221	Polymax 3, silver, 230 V 50/60 Hz
D-34221-A	Polymax 3, silver, 115 V 50/60 Hz

Inclusive
Pressure hose and water drain hose

Special voltage available on request

Polymax 5

Pressure polymerisation unit with a temperature range of up to 95 °C, with infinitely variable pressure from 3 to 6 bar. Due to a particularly large pressure pot volume also suitable for large articulators, 3 brass flasks including clamp resp. 4 Castdon flasks.

Advantages

- especially large pressure pot volume suitable for putting in articulators
- continuously adjustable pressure of 3 to 6 bar

Technical data

· measurement	H=310, W=345, D=385 mm
· pressure pot	Ø 220 mm
· pressure pot depth	174 mm
· weight	16.9 kg
· power consumption	900W at 115/230V
· pressure min/max	3/6 bar
· temperature range	0 up to 95 °C

D-3423	Polymax 5, red, 230 V 50/60 Hz
D-3423-A	Polymax 5, red, 115 V 50/60 Hz
D-34231	Polymax 5, silver, 230 V 50/60 Hz
D-34231-A	Polymax 5, silver, 115 V 50/60 Hz

Inclusive
Pressure hose and water drain hose

Special voltage available on request

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Lab units

Perforated insert
For inserting and extracting flasks, models etc. into and out of Polymax pressure pots.

D-34251 Perforated insert for Polymax 1 – 95 °C and 120 °C

D-34252 Perforated insert for Polymax 3

Pneupress T
Universal pressure unit for pressure duplication and -embedding, as well as for the manufacturing of plaster models free of air bubbles.

Advantages
- 60 minutes timer
- permanent temperature of 37 °C adjustable
- horizontal pressure chamber, 160 mm, depth 300 mm
- swivel lid with automatic sealing system
- continuously adjustable pressure up to 6 bar
- housing made of stainless steel

Technical data

· measurement	H=310, W=290, D=415 mm
· pressure min/max	3/6 bar
· weight	16.5 kg
· power consumption	100 Watt

D-3480 Pneupress T, 230 V/50 Hz incl. pressure hose

D-3480-A Pneupress T, 115 V/60 Hz incl. pressure hose

Special voltage available on request

Silicone Grease
Especially for greasing rubber seals (e. g. the O-ring seal of thermo-forming units or pressure pots).

D-3350 Silicone Grease 35 g tube

Polylux PT
Light-polymerisation unit with 5 and 10 minutes timer for laboratory and practice. Universal use in spectral range 300-500 nm due to combination of UVA and blue light.

Advantages
- very simple handling
- well designed, compact plastic housing, glare shield when chamber is closed
- high light intensity, short times of polymerisation
- operating life of the light tubes 1,000 hours, simple replacement of the light tubes
- incl. timer, time of polymerisation optionally 5 or 10 minutes

Technical data

· measurement	H=115, W=220, D=300 mm
· weight	2.2 kg
· power consumption	100 Watt

D-38055T Polylux PT, incl. 5/10 minutes timer, 230 V/50 Hz

D-38055T-A Polylux PT, incl. 5/10 minutes timer, 115 V/60 Hz

Special voltage available on request

UVA-light tube
for Polylux units

51514 UVA-light tube, 9 Watt/78
per unit 2 UVA-Light tubes are required

51517 UVA-light tube, 9 Watt/71
per unit 1 blue light tube is required

Notes

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