Пробирки и трубки AR-GLAS, CONTURAX, DUROBAX

Технические характеристики

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CONTURAX®

Standard profile

- Glass tubes and rods available in numerous standard shapes
- Standard length 1,500 mm
- Minimum quantity per dimension = 1 carton
- Other diameters and lengths upon request

Profile Type	Profile No.	Dimensions [mm]
	001	W 25.00
	002	W 31.00
	003	W 29.00
	004	OD 30.00 / ID 17.00
	006	OD 22.00 / WT 1.00 OD 30.00 / WT 2.00 OD 40.00 / WT 2.00 OD 50.00 / WT 2.50 OD 60.00 / WT 2.50 OD 70.00 / WT 2.50 OD 80.00 / WT 2.50
	ⓘ	**OD 100.00 / WT 3.00**
	ⓘ	**OD 120.00 / WT 5.00**
		for special lengths: min OD 30.00 / min WT 2.00

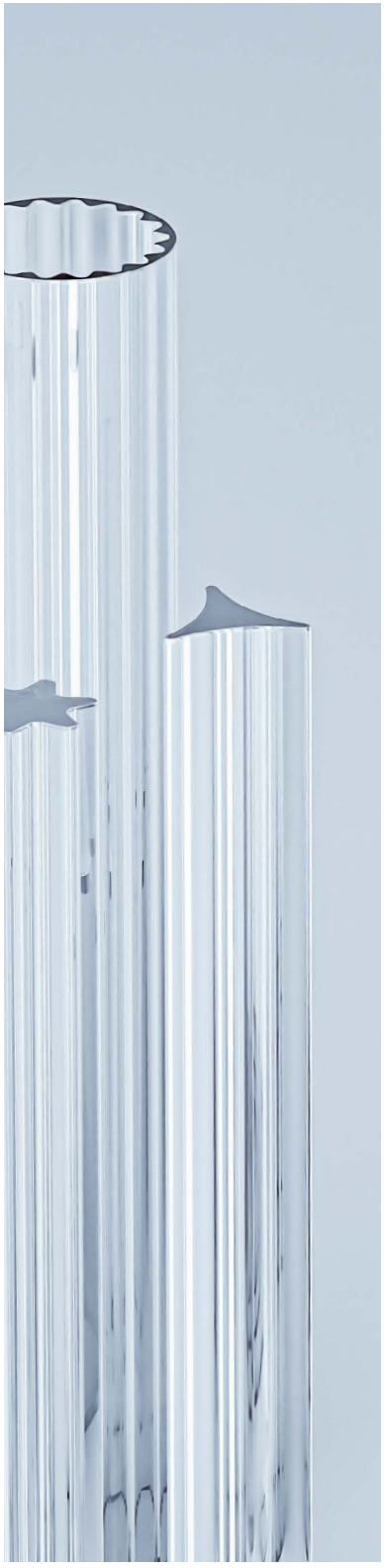
ⓘ Also available in CONTURAX® Tough. Our CONTURAX® Tough products offer additional product safety thanks to a polymer coating on the inside of the tubes. Learn more on our website schott.com/conturax-and-conturax-pro

Profile Type	Profile No.	Dimensions [mm]
	028	H 12.00 / W 25.00 H 14.50 / W 29.50
	033	W 27.00 possible range 20.00 – 35.00
	041	SL 29.00
	072	OD1 140.00 / OD2 68.00 WT ~3.30
	073	OD1 140.00 / OD2 68.00 WT ~3.30

Special profile

- Glass tubes and rods available in numerous shapes (The list shows an overview of special profiles manufactured in the past).
- Outer diameter > 6 up to 150 mm
- Lengths between 1,200 und 4,000 mm possible (depending on profile and dimensions)
- Minimum order quantities between 500 and 1,000 kg (depending on the profile)
- Technical test / development of new profile / costs upon request

Profile Type	Profile No.	Dimensions [mm]
	005	W 25.00 / ID 17.00
	010	W 20.00 W 30.00
	017	W 15.00 W 20.00 W 25.00 W 30.00 W 35.00
	020	OD 24.00 / WT 1.00 / 12 bars OD 40.00 / WT 2.00 / 14 bars OD 60.00 / WT 2.50 / 14 bars OD 80.00 / WT 3.00 / 18 bars
	021	D 25.00
	038	W 30.00 / WT max. 2.50 60 striations W 40.00 / WT max. 2.50 60 striations W 60.00 / WT max. 3.00 60 striations W 136.50 / WT max. 4.50 80 striations
	040	OD 16.85 / ID 12.40
	049	W 30.00 / H 12.00
	056	SL 30.00
	068	W 10.00 W 25.00
	070	W 40.00 / H 14.00
	075	W 30.00 / H 13.50
	080	W 16.60 / ID 9.00 OD 16.60 – 40.00 / ID 9.00 – 24.00
	104	W 10.00 – 20.00 / H 5.00 – 8.00

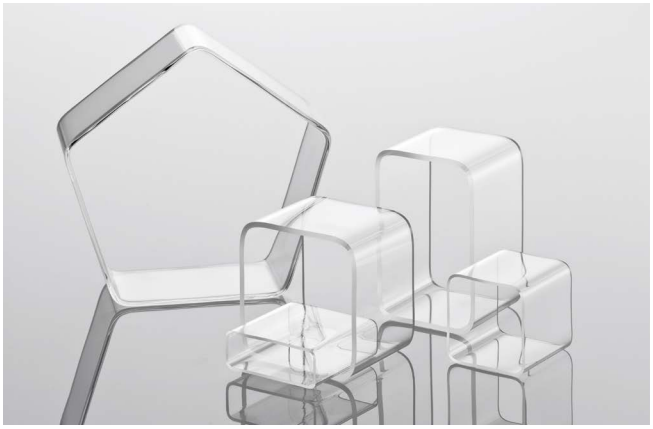


CONTURAX® Pro

Standard profile

- Right angle and square tubes available
- Standard length 1,500 mm
- Minimum quantity per standard dimension = 1 carton
- Minimum order quantity for devations from the standard = 500 kg

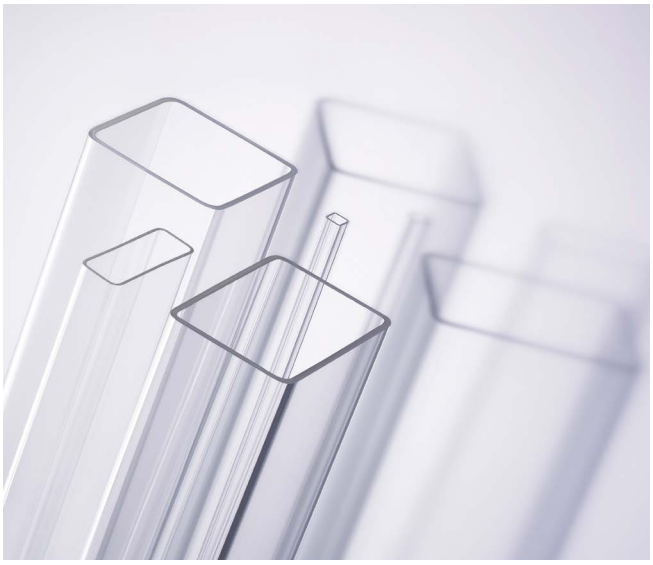
Profile Type	Profile No.	Dimensions [mm]
	085	W 44.50 / WT 1.40 W 67.80 / WT 2.75
	086	H 32.40 / W 54.75 / WT 1.75 H 58.00 / W 86.50 / WT 2.75



Special profile

- Glass tubes and rods are available in a variety of different shapes (The list shows an overview of special profiles manufactured in the past).
- Possible dimension range (depending on the profile and dimensions):
  OD > 6 up to 150 mm
  L 1,200 up to 4,000 mm
- Minimum order quantities between 500 and 1,000 kg (depending on the profile)
- Other diameters and lengths upton request.

Profile Type	Profile No.	Dimensions [mm]
	086	H 19.00 / W 53.50 / WT 1.45
	089	H 132.70 / W 138.80 / WT 2.75
	093	W 100.00 / W 96.00 / WT 3.00



AR-GLAS®

Technical Data

Glass Type/Application	soda-lime glass Pharmaceutical primary packaging, general technical application

Physical Data (approx. value)

Coefficient of mean linear thermal expansion

α(20°C; 300°C) acc. to ISO 7991	9.1 · $10^{-6}K^{-1}$	
Transformation Temperature T_g	525	°C

Glass temperature at viscosity η in dPa · s

10^{13} (annealing point).....	530	°C
$10^{7.6}$ (softening point)	720	°C
10^{4} (working point)	1040	°C
Density ρ at 25°C	2.50	g · cm^{-3}

Chemical Data

Hydrolytic resistance

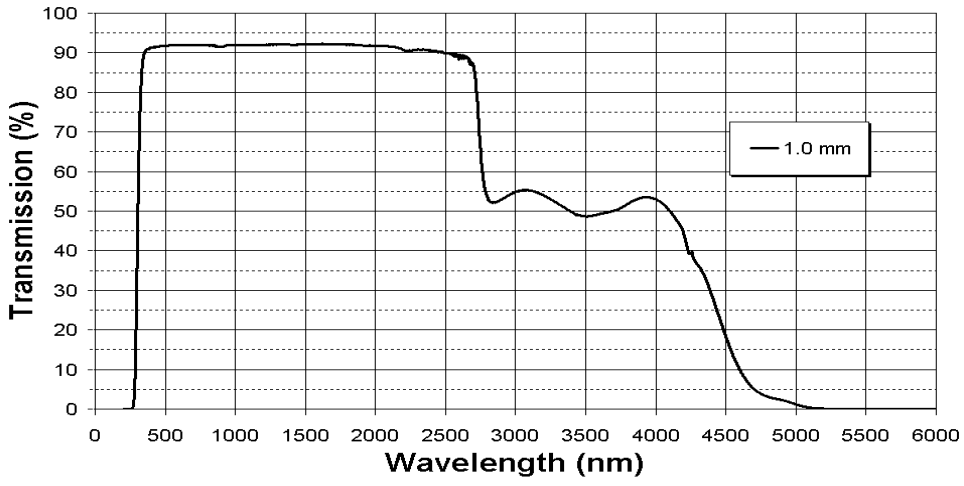
acc. to ISO 719	Class	HGB 3
acc. to Ph. Eur.	Type	III
acc. to USP.....	Type	III
Acid resistance (DIN 12116)	Class	S 1
Alkali resistance (ISO 695)	Class	A 2
ASTM E 438	Type	II

Chemical Composition (main components in approx. weight %)

SiO_2	B_2O_3	Al_2O_3	Na_2O	K_2O	BaO	CaO	MgO
69	1	4	13	3	2	5	3

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.

Transmission (exemplary spectrum)



DUROBAX® clear

Technical Data

GlassType/Application	Neutral glass tubing, chemically highly resistant Containers, test tubes, pipettes, chemical and technical apparatus		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion		
	α(20°C; 300°C) (ISO 7991)	4.9	$10^{-6}K^{-1}$
	Transformation temperature T_g (ISO 7884-8).....	565	°C
	Glass temperature at viscosity η in dPa·s		
	10^{13} (annealing point) (ISO 7884-4).....	565	°C
	$10^{7.6}$ (softening point) (ISO 7884-3).....	785	°C
	10^{4} (working point) (ISO 7884-2).....	1160	°C
	Stress-optical coefficient K (DIN 52314).....	3.4	$10^{-6}mm^2 \cdot N^{-1}$
	Density ρ at 25°C	2.34	$g \cdot cm^{-3}$
	Modulus of elasticity E (Young's modulus)	73	$10^3 N \cdot mm^{-2}$
	Poisson's ratio μ	0.2	
	Thermal conductivity λ_w at 90°C	1.2	$W \cdot m^{-1} \cdot K^{-1}$
	Log of the electric volume resistivity ($\Omega \cdot$cm)		
	at 250°C	7.4	
	at 350°C	6.0	
	t_{k100}	215	°C
	Dielectric constant ε for 1 MHz at 25°C	5.7	
	Dielectric loss factor tan δ for 1 MHz at 25°C	80	10^{-4}
	Refractive index n_d (λ = 587.6 nm)	1.492	
Chemical Resistance	Hydrolytic resistance (ISO 719)	Class	HGB 1
	Acid resistance (DIN 12116)	Class	S 1
	Alkali resistance (ISO 695)	Class	A 2
	The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm		

DUROBAX® amber

Technical Data

GlassType/Application	Neutral glass tubing, chemically highly resistant, with light protection Containers, test tubes, pipettes, chemical and technical apparatus		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion		
	α(20°C; 300°C) (ISO 7991)	5.4	$10^{-6}K^{-1}$
	Transformation temperature T_g (ISO 7884-8).....	550	°C
	Glass temperature at viscosity η in dPa·s		
	10^{13} (annealing point) (ISO 7884-4).....	560	°C
	$10^{7.6}$ (softening point) (ISO 7884-3).....	770	°C
	10^{4} (working point) (ISO 7884-2).....	1165	°C
	Stress-optical coefficient K (DIN 52314).....	2.2	$10^{-6}mm^2 \cdot N^{-1}$
	Density ρ at 25°C	2.42	$g \cdot cm^{-3}$
	Modulus of elasticity E (Young's modulus)	71	$10^3 N \cdot mm^{-2}$
	Poisson's ratio μ	0.19	
	Thermal conductivity λ_w at 90°C	1.2	$W \cdot m^{-1} \cdot K^{-1}$
	Log of the electric volume resistivity ($\Omega \cdot$cm)		
	at 250°C	7.1	
	at 350°C	5.6	
	t_{k100}	200	°C
	Dielectric constant ε for 1 MHz at 25°C	6.3	
	Dielectric loss factor tan δ for 1 MHz at 25°C	107	10^{-4}
	Refractive index n_d (λ = 587.6 nm)	1.523	
Chemical Resistance	Hydrolytic resistance (ISO 719)	Class	HGB 1
	Acid resistance (DIN 12116)	Class	S 1
	Alkali resistance (ISO 695)	Class	A 2
	The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm		

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