L	uxury Goods – Flacon Bondin	g Material S	Selection G	uide
Product	Product group	DELO PHOTOBOND		
Pro	Product code	AD491	PB437	4496
	Adhesive type		light-curing	
ᇢ	Standard product	✓	✓	✓
General	Basis	acrylate	acrylate	acrylate
0	Color in 0.1 mm layer thickness	colorless clear	colorless clear	yellowish clear
	Fluorescence	-	-	-
	Curing mechanism	UV- and light-curing		
	Min. irradiation time [s]	7 UVA intensity 60 mW/cm² 3 LED intensity 200 mW/cm²	6 UVA intensity 60 mW/cm² 3 LED intensity 200 mW/cm²	50 UVA intensity 60 mW/cm² 26 LED intensity 200 mW/cm²
Curing	Recommended preactivation time	-	-	-
	Curing specialties	very fast light fixation at least one component must be translucent		
	Curing time until initial strength	-	_	_
	Curing time with heat	-	_	-
nes	Viscosity [mPas]	90,000	8,000	17,000
Special values	Young's modulus [MPa]	400	520	-
seci	Elongation at tear [%]	150	110	300
Š	Water absorption [%]	1.0	1.0	0.7
rties	Special features of product	high-viscous and flexible	fast curing high strength	soft and flexible
Properties	Applications	plates and decorative elements to glass bottles can be used on many substrates	plastic or glass to glass can be used on many substrates	for plastics that are difficult to bond, e.g. Surlyn impact- and vibration-resistant can be used on many substrates
	Available container sizes	900 g cartridge	30 g cartridge 1,000 g bottle	50 g 1,000 g bottle

DELO PHOTOBOND			DELO DUALBOND	DELO KATIOBOND	DELO- DUOPOX
GB368	GB422	LA4875	AD4950	4578	03 rapid
light	-curing	UV- and light- activated	dual-curing	light-activated	two-component
✓	✓	✓	✓	✓	✓
acrylate	acrylate	mod. urethane polymer	acrylate	ероху	ероху
colorless clear	colorless clear	colorless	colorless	brown milky	yellowish
-	✓	✓	-	-	-
UV- and light-curing		light-activated humidity curing	light- and humidity- curing	light-activated	room-temperature curing
15	9	-	10	60 UVA intensity 60 mW/cm² 11 LED intensity 200 mW/cm² at +30°C	-
-	-	4 s LED intensity 400 nm, 200 mW/cm², 500 µm layer thickness	-	2 s UVA intensity, 60 mW/cm²	-
	: light curing lent must be translucent	for bonding opaque components, the adhesive can be preactivated by light prior to component fixation	for applications where light curing is only conditionally possible as parts of the bonding area are not accessible by light light fixation necessary	for bonding opaque components, the adhesive can be preactivated by light prior to component fixation	for bonding opaque components
-	-	-	-	-	11 min
-	-	-	-	-	-
5,700	5,000	70,000	36,000	12,400	comp. A: 13,000 comp. B: 18,000
900	50	< 100	45	900	2,000
17	370	270	270	3	19
0.5	1.5	1.5	2.5	0.9	1.0
dry surface humidity-resistant	flexible and humidity- resistant, also on plastic easy application control by fluorescence good adhesion to PA and glass good resistance in +15 °C/90 % r.h. tests	preactivated, humidity- curing in shadowed areas in 48 h	humidity-curing in shadowed areas in 24 h	preactivated high chemical resistance	very fast two-compone adhesive
predominantly for glass-to-glass and lass-to-metal bondings	glass and plastic components into caps can be used on many substrates	laminar or bead-shaped bondings plastic to glass	for plastics that are difficult to bond, e.g. Surlyn can be used on many substrates	can be used on many substrates	metal or plastic to glas can be used on many substrates
50 g 1,000 g bottle	1,000 g bottle	40 g 800 g cartridge	30 g 600 g cartridge	1,000 g bottle	55 g DELO-AUTOMIX

AD = ADhesive GB = Glass Bonding LA = Light-Activated PB = PHOTOBOND

Application examples



Bonding of a glass element to a glass bottle



Bonding of a metal frame to a glass bottle



Bonding of a plastic element to a glass bottle



Bonding of top and bottom part of a glass cap



Bonding of a metal frame to a glass cap



Bonding of a plastic frame to a glass cap

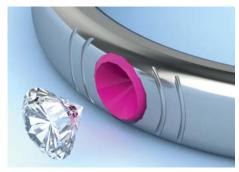
nct	Product group		DELO PHOTOBOND		
Product	Product code	GB368	4494	AD494	
	Adhesive type		light-curing		
-	Standard product	✓	✓	✓	
general	Basis	acrylate	acrylate	acrylate	
5	Color	colorless clear	colorless clear	colorless clear	
	Fluorescence	-	-	-	
	Curing mechanism		UV- and light-curing		
Curing	Min. irradiation time [s]	15 UVA intensity 60 mW/cm²	7 UVA intensity 60 mW/cm² 3 LED intensity 200 mW/cm²	14 UVA intensity 60 mW/cm² 9 LED intensity 200 mW/cm²	
٥	Curing specialties	at lea	very fast light curing at least one component must be translucent		
	Curing time until initial strength	-	-	_	
	Curing time with heat	-	-	-	
nes	Viscosity [mPas]	5,700	20,000	50,000	
special values	Young's modulus [MPa]	900	400	20	
Sec Sec	Elongation at tear [%]	17	160	310	
ח	Water absorption [%]	0.5	1.3	3.0	
	Special features of product	dry surface humidity-resistant	fast curing high strength	high-viscous and flexible	
Properties	Applications	predominantly for glass-to-glass and glass-to-metal bondings	metal to glass can be used on many substrates	plates and decorative elements to glass bottles can be used on many substrates	
	Available container sizes	50 g 1,000 g bottle	30 g 600 g cartridge	30 g 600 g cartridge	

DELO DUALBOND		DELO-ML	DELO-DUOPOX	
GE4913	AD4930	DB133	CR8021	
dual-curing		dual-curing	two-component	
-	✓	✓	✓	
acrylate	acrylate	mod. urethane acrylate	ероху	
colorless clear	yellowish	colorless	yellowish transparent	
-	-	-	-	
UV- / light- and humidity-curing		anaerobic- and UV-curing	room-temperature-curing	
17 LED intensity 200 mW/cm²	5 UVA intensity 60 mW/cm² 3 LED intensity 200 mW/cm²	25 UVA intensity 60 mW/cm²	-	
as parts of the bonding a	uring is only conditionally possible rea are not accessible by light ion necessary	anaerobic-curing for bonding opaque components	for bonding opaque components	
-	-	3 – 6 min	15 min @ +80°C in convection oven	
-	-	-	-	
1,300	14,000	700	comp. A: 34,000 comp. B: 10,000	
-	30	300	100	
-	45	130	35	
-	0.6	-	0.5	
umidity-curing in shadowed areas in 24 decelerated humidity curing results in longer processing time at room lighting	h humidity-curing in shadowed areas in 24 h	various curing possibilities: light, heat, anaerobic with activator	two-component adhesive	
preferably for glass-to-glass and glass-to-metal bondings also for laminar plastic bonding	can be used on many substrates, e.g. plastic, glass, metal	preferably for metal, glass and polyamide bondings	metal or plastic to glass can be used on many substrates	
600 g cartridge (minimum order quantity 25 kg)	30 g 600 g cartridge	50 g 200 g bottle	53 g DELO-AUTOMIX double chamber cartridge 1,000 g tins (comp. A+B)	

AD = ADhesive CR = Casting Resin DB = Dual Bonding GB = Glass Bonding GE = General Encapsulant

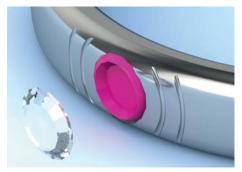
Application examples





Bonding of a gemstone with coated sharp back into a socket





Bonding of a gemstone with coated flat back into a socket





DELO Industrial Adhesives Headquarters

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The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for a specific purpose. Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent. All products provided by DELO are subject to DELO's General Terms of Business. Verbal ancillary agreements are deemed not to exist.

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MATERIAL SELECTION GUIDE

Luxury Goods