









Waterbased Dispersions
for Adhesives (PSA & Lamination)

Content

ALBERDINGK BOLEY in a nutshell.....	4
Application fields.....	5
Pressure sensitive adhesives.....	6
General Product Overview	6
Product Selection Pressure Sensitive Adhesives	7
Product Overview Pressure Sensitive Adhesives.....	8
Application Data / Peel Strength on different substrates	9
Application Data / Peel Strength on different substrates	10
Suitable raw materials for formulation.....	11
Product Overview Laminating Adhesives.....	12
Polyurethanes/Acrylics for Laminating Adhesives.....	13
Application Data Polyurethanes/Acrylics for Laminating Adhesives	14
Specialty Products.....	15

ALBERDINGK BOLEY in a nutshell

 <p>Leading global manufacturer of environmentally friendly water-based binders and oils with unique properties to refine, refurbish, bind and protect multiple types of substrates</p>	 <p>Medium sized, privately owned company</p> <p>> a partner to our customers for more than 250 years</p>	 <p>> 500 employees</p>
 <p>Dynamic, Innovative and flexible</p> <p>Pioneers in biobased polymer dispersions</p>	 <p>Dispersions: Acrylic, Vinyl acetate, Polyurethane and hybrid dispersions</p> <p>Oils: Linseed oil, Castor oil, Derivatives</p>	 <p>Locations:</p> <ul style="list-style-type: none"> • Krefeld, Germany • Kerpen, Germany • Leuna, Germany • Treviso, Italy • Congleton, UK • Greensboro, USA • Shenzhen, China • Zhuhai, China

For more information about ALBERDINGK BOLEY and our product offerings, visit www.alberdingk-boley.de.

Application fields

- Specialty Tapes
- Labels
- Paper adhesives (packaging)
- Protective Films
- Impregnation
- Building and Construction
- Heat Activating Adhesives



Latest update
February 20, 2025

page 5 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Pressure sensitive adhesives

General Product Overview



Latest update
February 20, 2025

page 6 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Product Selection Pressure Sensitive Adhesives

	Permanent Tapes / Labels	Removable Tapes / Labels	Protective Films	Tapes for Construction	Tapes for Automotive	Packaging Adhesives	Impregnation of Sealing Tapes / Tackifier	High Water Resistance	Sealants	Tapes for Low Emission Flooring (EMICODE EC1 Plus)	Regulation (10/2011/EU)	BfR XIV	FDA Regulation 21 CFR 175.105	Swiss Ordinance 817.023.021 Annex 10
AC 75015							X				✓	✓	✓	✓
AC 75022	X					X	X				✓	✓	✓	✓
AC 75032	X			X				X				✓	✓	✓
AC 75063	X					X				X		✓	✓	✓
AC 75066	X				X						✓		✓	✓
AC 75070	X			X	X	X				X	✓	✓	✓	✓
AC 75222	X				X	X						✓	✓	✓
AC 75241	X				X	X			X			✓	✓	✓
AC 75275		X	X						X		✓	✓	✓	
AS 2040									X					

Latest update
February 20, 2025

page 7 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Product Overview Pressure Sensitive Adhesives

	Solids [%]	pH-Value	Viscosity Brookfield [mPas]	Tg [°C]	Loop Tack [N/inch]	Peel Strength, 180° [N/inch]	Shear Resist., RT, 10N/6.25 cm ² [h]	Dynamic Shear Resist. [N/cm ²]	Heat Resistance „Ford“ [°C]	Features
AC 75015	60	6.5–7.5	100–1,000	-56	n.a.	n.a.	n.a.	n.a.	n.a.	Very soft, low temperature adhesion
AC 75022	67	4.0–6.0	200–1,500	-40	35	17	0.5	30	52	Very soft, high initial tack, high solid
AC 75032	60	6.0–7.0	500–1,500	-35	26	26	3	50	90	High water resistance, high initial tack
AC 75063	65	3.5–5.0	1,000–3,000	-39	23	24	30	55	130	Good balance of adhesion and cohesion
AC 75066	62	5.0–6.5	500–3,000	-39	29	24	>500	60	>160	High cohesion and heat resistance
AC 75070	65	3.0–5.0	2,000–5,000	-34	28	26	25	55	125	High Peel, good balance of adhesion and cohesion, high initial tack
AC 75222	68	4.5–5.5	2,000–5,000	-46	27	21	>500	60	>160	High cohesion and heat resistance, high solid
AC 75241	65	4.0–5.0	3,000–5,000	-32	20	16	>1,000	60	>160	Very high cohesion and heat resistance, high initial tack
AC 75275	60	4.5–5.5	100–1,000	-51	10	10	500	61	>160	High cohesion and heat resistance, removable
AS 2040	59	7,0–9,0	1,500–4,500	8	n.a.	n.a.	n.a.	n.a.	n.a.	Acrylic Styrene copolymer dispersion. For flexible sealants and screeds, very good cement and bitumen-compatibility

Latest update
February 20, 2025

page 8 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Application Data / Peel Strength on different substrates



Latest update
February 20, 2025

page 9 of 20

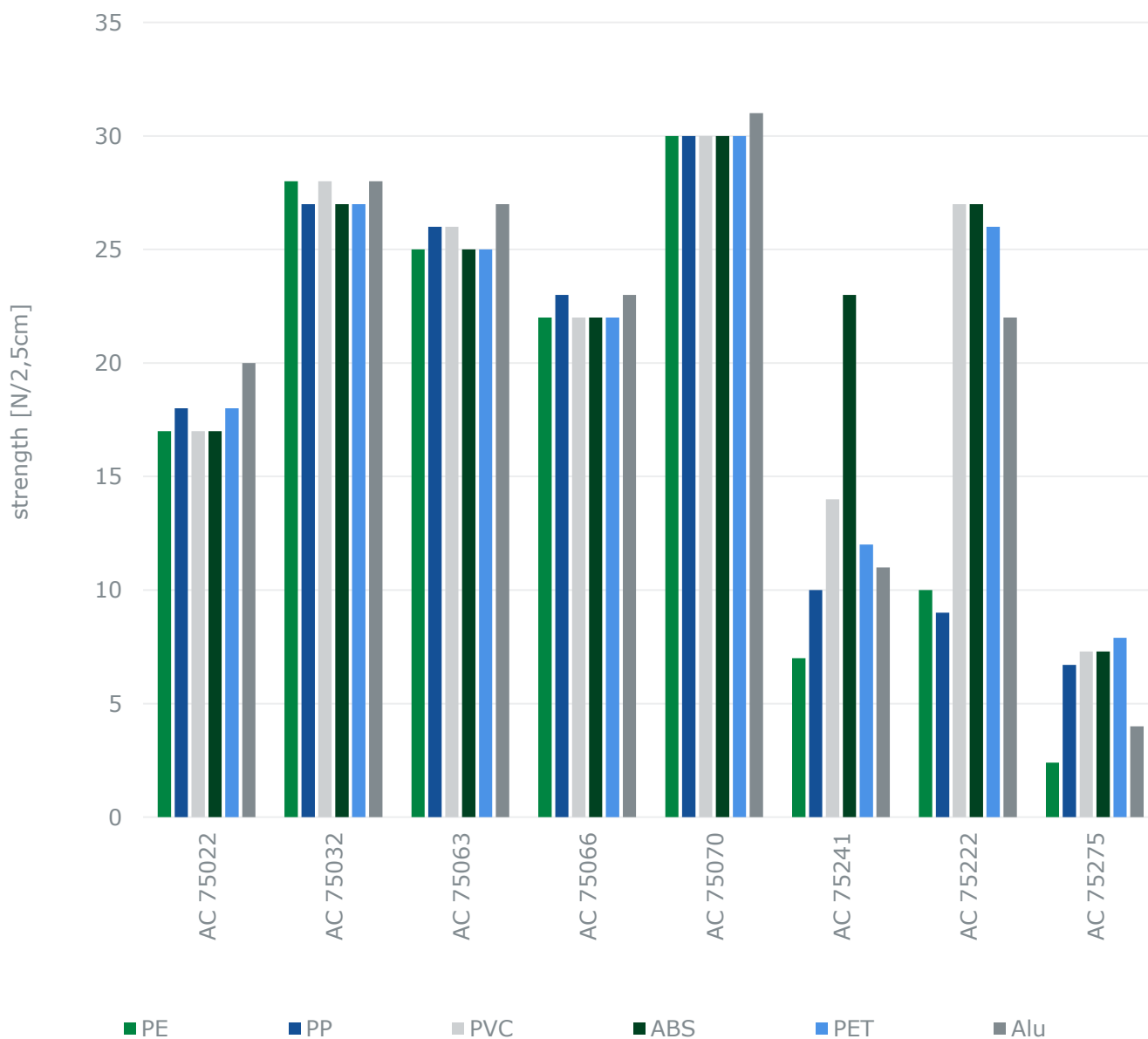
Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Application Data / Peel Strength on different substrates

FINAT Test Method FTM 1, Coating Weight: 65 g/m², dry



Latest update
February 20, 2025

page 10 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Suitable raw materials for formulation

Defoamers:

Tego Antifoam 2-57 (Evonik)

Tego Foamex 822 (Evonik)

BYK-094 (BYK Chemie)

BYK-039 (BYK Chemie)

Substrate wetting agents:

BYK-3400 (BYK Chemie)

Tegopren 5840 (Evonik)

Tegopren 5890 (Evonik)

Dow Corning 67 (Dow Corning)

BYK-3410 (BYK Chemie)

BYK-349 (BYK Chemie)

Rheology modifiers:

Tego Rheo 8600 (Evonik), for food contact application

RHEOBYK-H 3300 VF (BYK Chemie)

Coapur 830 W (Coatex)

Rheovis PU 1190 (BASF)

Coapur XS 22 (Coatex)

Tego Rheo 8510 (Evonik)

Coatex BR 125 NPF (Coatex)

Borchi Gel L 75 N (Borchers)

We recommend to check the properties of the formulation properly, as the add-on of additives can influence adhesive properties.

Product Overview Laminating Adhesives

	Industrial Lamination	Film Lamination (Heat Seal)	Paper Lamination/ Packaging	Leather Assembly	Transfer Adhesives	Water Barrier (Paper)	Fat Barrier (Paper)	Primer	Hydrolysis Resistance	BfR XIV	BfR XXXVI	Regulation (10/2011/EU)	FDA Regulation 21 CFR 175.105, CFR 176.170, CFR 176.180	Swiss Ordinance 817.023.021 Annex 10
AC 2005	X		X			X	X			✓	✓	✓	✓	✓
AC 4605			X			X	X			✓	✓	✓	✓	✓
AC 5503	X	X									✓	✓	✓	✓
Ren AC 5605			X			X				✓	✓	✓	✓	✓
U 3251	X	X												
U 355 VP*	X	X		X	X				X					
U 400 N*	X	X			X			X	X					
U 4023 VP*	X	X	X		X				X					
U 4040*	X				X			X	X					
U 4101*	X	X		X	X				X					
U 460 VP*	X	X			X			X	X					

Latest update
February 20, 2025

page 12 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Polyurethanes/Acrylics for Laminating Adhesives

	Solids content [%]	pH-value	Viscosity Brookfield [mPas]	Activating-temperature [°C]	Features
AC 2005	50	8.0-9.0	20-2,000	>80	Heat sealable coatings for food packaging, good water & fat barrier properties
AC 4605	50	8.0-9.0	40-600	>80	Heat sealable coatings for food packaging, good barrier properties on paper
AC 5503	50	7.0-9.0	1,000-5,000	> 80	Self-crosslinking acrylate, for lamination
Ren AC 5605 VP	50	8.0-9.0	20-2,000	>80	Biobased AC 4605, Heat sealable coatings for food packaging, good barrier properties on paper
U 3251*	40	7.0-8.0	20-200	> 70	Polyester PU for lamination, soft and flexible
U 355 VP	35	7.0-8.5	500-1000	> 80	Polyether PU for lamination, good adhesion to a variety of substrates
U 400 N*	40	7.0-8.0	20-200	> 110	Polyether PU for lamination, high hydrolysis resistance, adhesion primer
U 4023 VP	40	7.0-8.5	20-500	> 80	Polyether PU, blister varnish for cardboard & plastics with low activation temperature
U 4040	45	7.0-8.0	100-2,000	> 110	Lamination, adhesion primer especially for shoe soles (EVA), good heat- and water resistance
U 4101*	40	7.0-8.5	50-750	tacky	Polyether PU, tacky, good adhesion to different substrates, high hydrolysis resistance, low activation temperature, contact adhesives
U 460 VP*	40	7.0-8.5	50-500	> 80	Polyether PU for lamination, good adhesion to different substrates, furniture foil lamination with good heat- and hydrolysis resistance, leather adhesives

***Also available with renewable content, details upon request**

Latest update
February 20, 2025

page 13 of 20

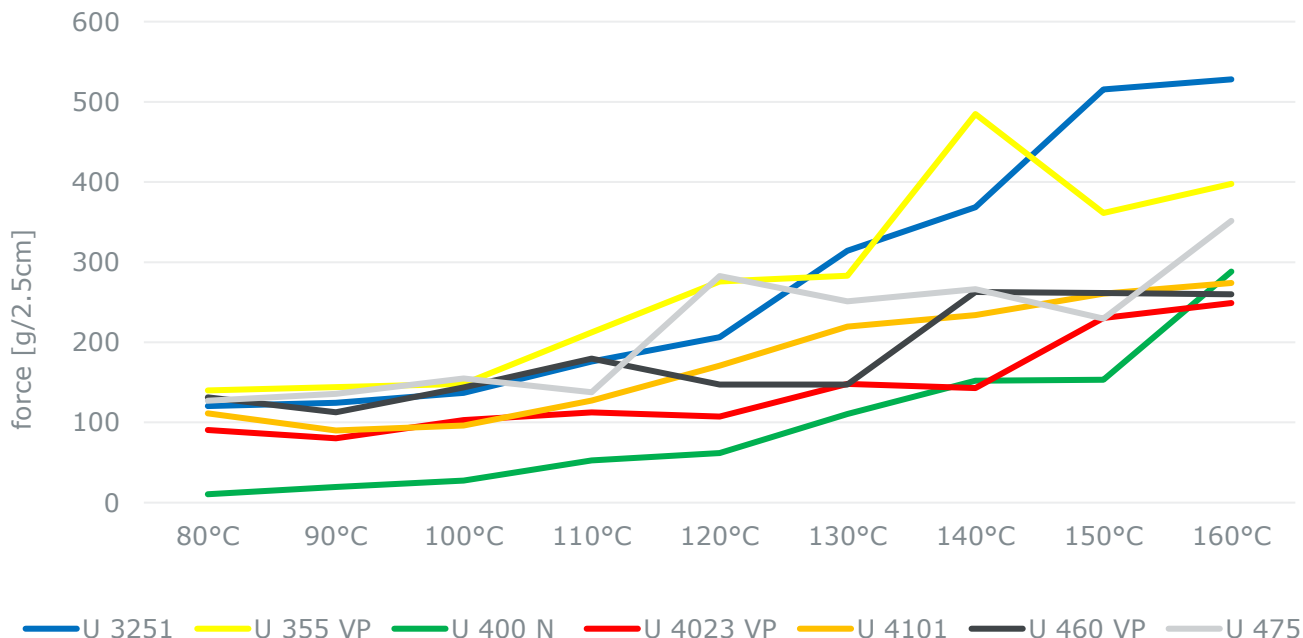
Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

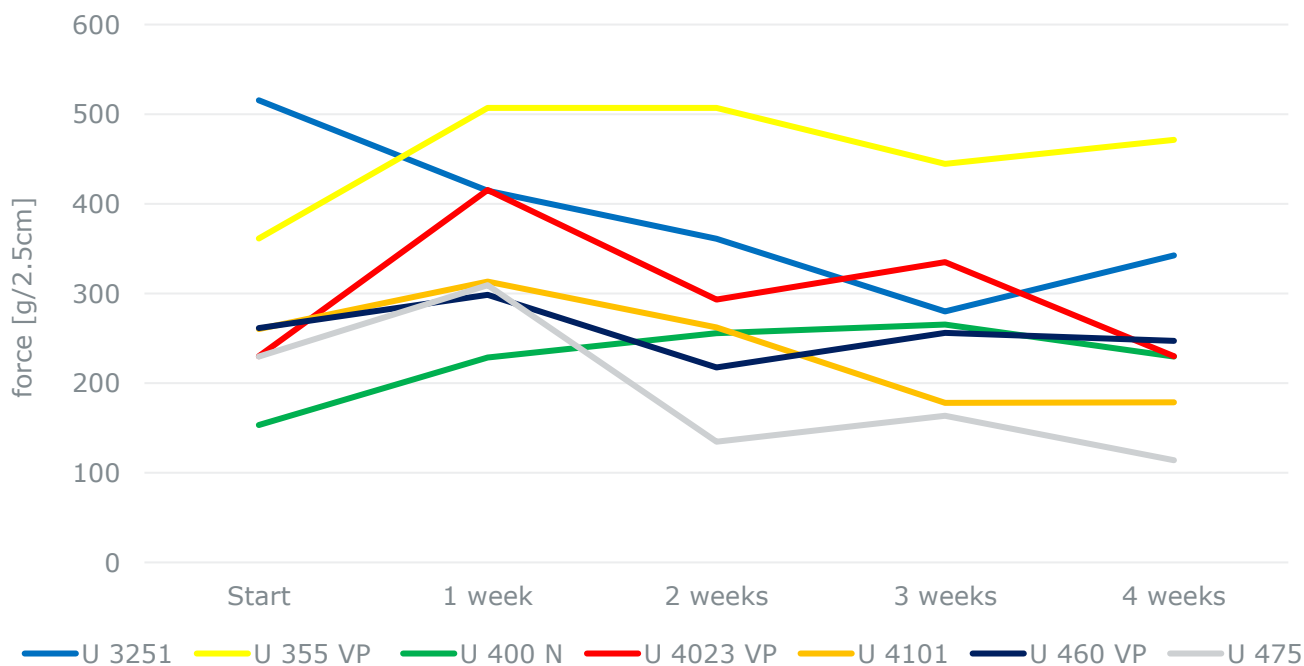
The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Application Data Polyurethanes/Acrylics for Laminating Adhesives

Heat Seal PET coated/PET uncoated (1K)



Humidity Seal Retention PET coated/PET uncoated (1K)



Latest update
February 20, 2025

page 14 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required

Specialty Products

	Solids content [%]	pH-value	Brookfield Viscosity [mPa s]	Features
AC 2575	40	4.0–4.5	10-300	For hobby glue (when neutralized with potassiumhydroxide/ ammonia), washable
U 205	40	7.0-8.0	20-200	Release coating for craft liner
SC 4450	50	7.5-8.5	500-5,000	Mixing Partner for polychloroprene adhesives to improve cohesion and heat stability
U 4000*	30	8.0-9.5	10-200	Primer for plastic substrates (e.g. corona treated BOPP film), suitable for indirect food contact (EU No.10/2011)

***Also available with renewable content, details upon request**



Notes:

[illegible]

Latest update
February 20, 2025

page 16 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required



Notes:

[illegible]

Latest update
February 20, 2025

page 17 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required



Notes:

[illegible]

Latest update
February 20, 2025

page 18 of 20

Alberdingk Boley GmbH | Düsseldorf Str. 53 | 47829 Krefeld | Germany
Phone +49 2151 528-0 | Fax+49 2151 573643 | info@alberdingk-boleyn.de | www.alberdingk-boleyn.de

Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
Alberdingk Resins (Zhuhai) Co., Ltd. | Zhuhai City | P. R. China | www.alberdingkresins.com

The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required.

Disclaimer:

While the descriptions, data and information (collectively, the "Information") contained herein, or otherwise made available to or used by a customer, potential customer and/or user (each, a "User"), represent our current state of technology and are presented in good faith and believed to be accurate, they are provided for guidance purposes only. Alberdingk Boley itself and on behalf of all of its past, current and future affiliated and related companies and entities (hereinafter referred to as "AB") make no warranties (expressed or implied), as to the Information's accuracy, sufficiency, adequacy or freedom from defect and assumes no liability in connection with any use of the Information. The Information is not intended to assure certain characteristics of AB's products and their suitability for particular application fields and/or uses, as many factors may affect processing, application and/or use. Any User of AB's products is responsible for determining the suitability of such products for its particular application. No express or implied warranty is made by AB of the merchantability, suitability, fitness for a particular purpose, freedom from patent infringement or otherwise of any product or service. Any existing intellectual/industrial property rights must be observed. AB will not be liable to any User for any damages including, without limitation, any special, incidental or consequential damages. In no case shall any Information provided to a User be considered part of AB's terms and conditions of sale.

**ALBERDINGK BOLEY**

Alberdingk Boley GmbH
Düsseldorfer Str. 53 | 47829 Krefeld | Germany
Tel +49 2151 528-0 | Fax +49 2151 573643
info@alberdingk-boley.de | www.alberdingk-boley.de

