









Waterbased Dispersions
for Adhesives (PSA & Lamination)

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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



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Pressure sensitive adhesives

General Product Overview



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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					

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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

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Application Data / Peel Strength on different substrates



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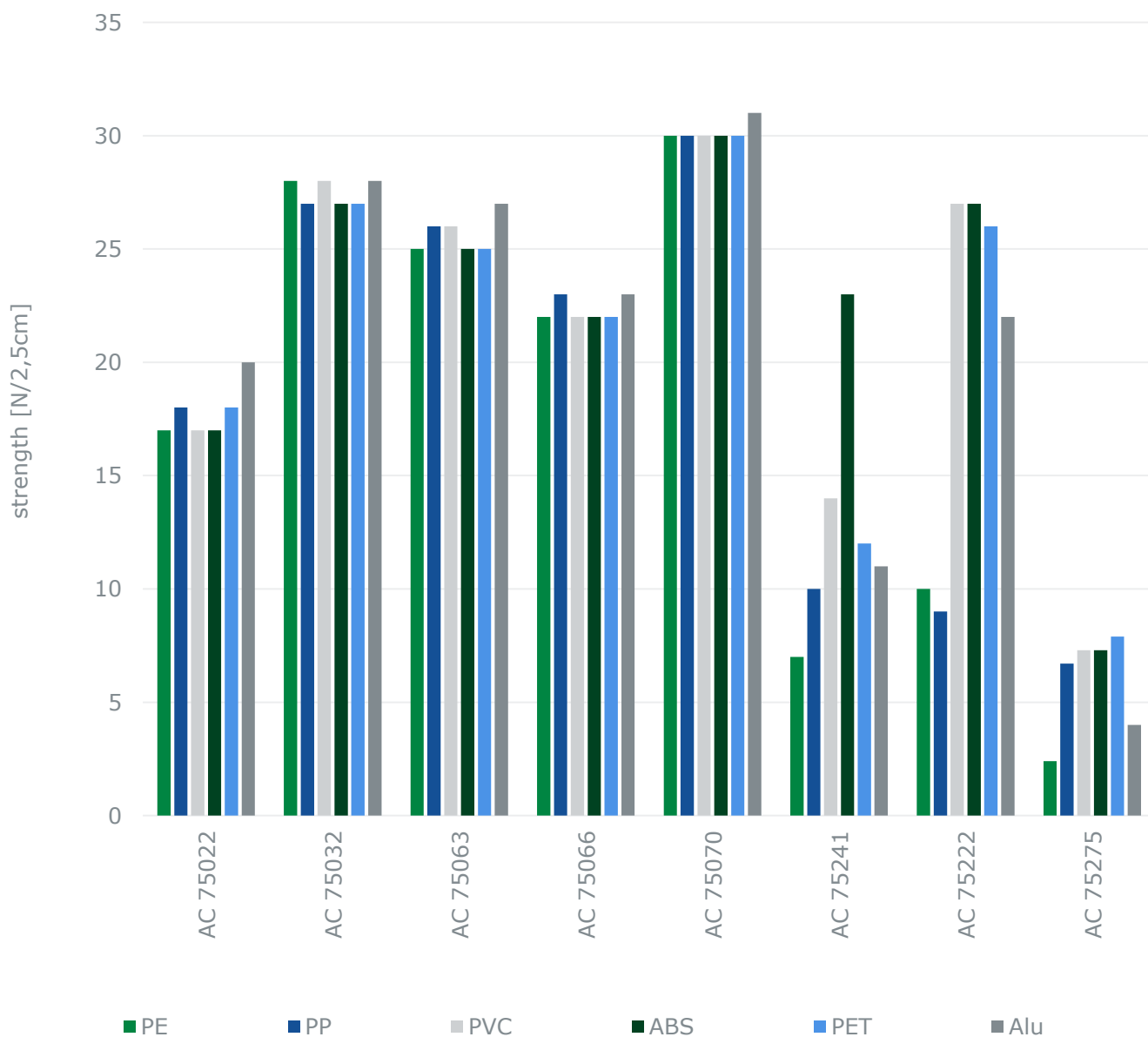
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Application Data / Peel Strength on different substrates

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



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					

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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**

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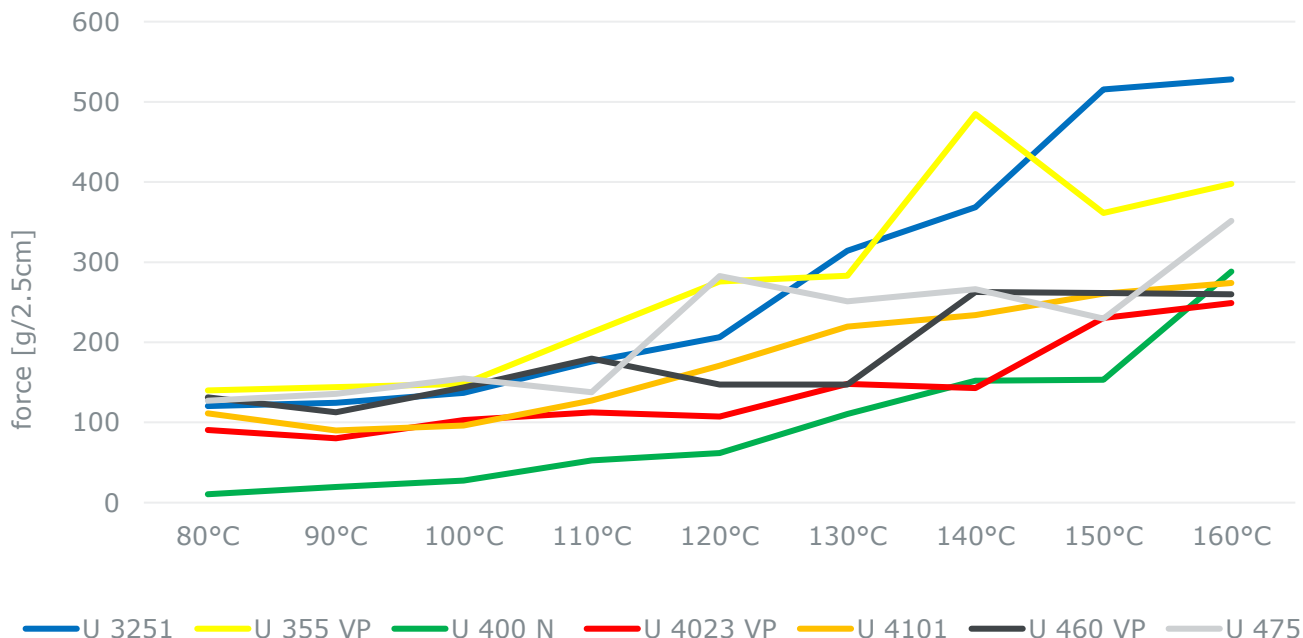
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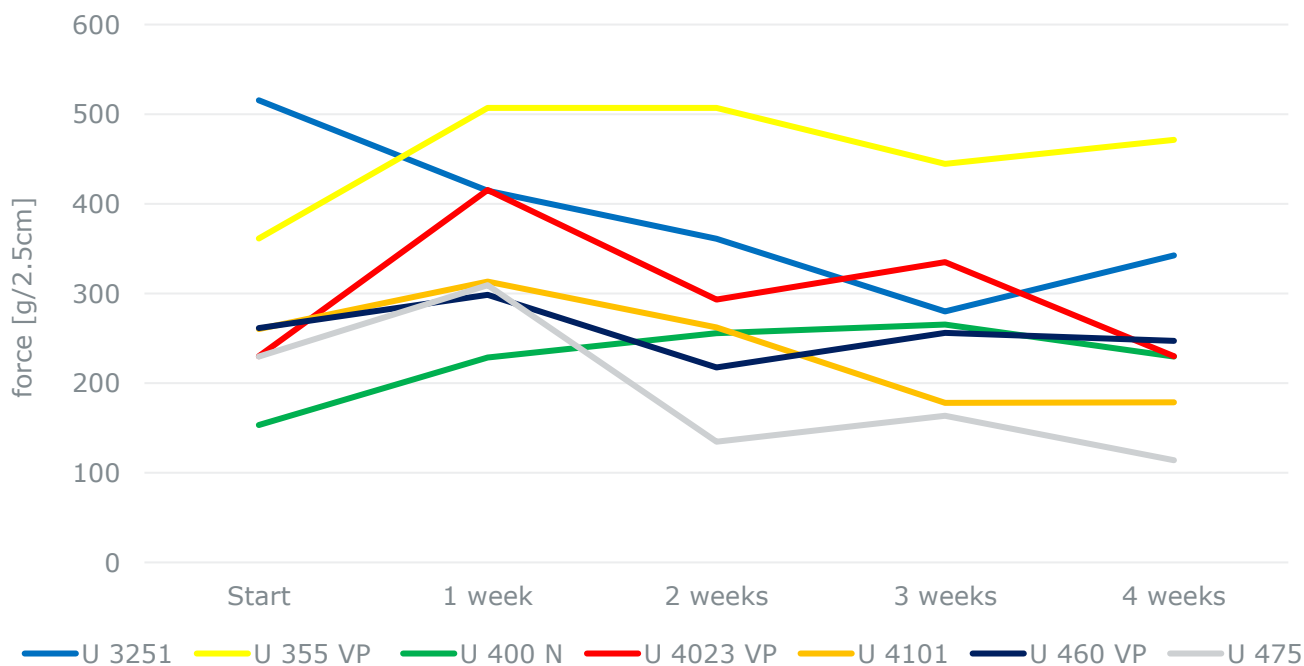
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Application Data Polyurethanes/Acrylics for Laminating Adhesives

Heat Seal PET coated/PET uncoated (1K)



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



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Specialty Products

	Solids content [%]	pH-value	Brookfield Viscosity [mPa s]	Features
AC 2570	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)

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