



Waterbased Dispersions  
for Adhesives (PSA & Lamination)











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## ALBERDINGK BOLEY in a nutshell

 <p>Leading international 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            &gt; 250 million Euro group turnover in 2021            &gt; a partner to our customers for more than 250 years</p>	 <p>&gt; 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"> <li>• Krefeld, Germany</li> <li>• Kerpen, Germany</li> <li>• Leuna, Germany</li> <li>• Treviso, Italy</li> <li>• Congleton, UK</li> <li>• Greensboro, USA</li> <li>• Shenzhen, China</li> <li>• Zhuhai, China</li> </ul>

For more information about ALBERDINGK BOLEY and our product offerings, visit [www.alberdingk-boley.de](http://www.alberdingk-boley.de).

### Application fields

- Specialty Tapes
- Labels
- Paper adhesives (packaging)
- Anti-Slip-Coatings
- Graphic Films
- Heat Activating Adhesives



### General Product Overview Pressure Sensitive Adhesives





## Specialty Tapes / Labels

**AC 75011** Impregnation of sealing tapes, removable tapes  
Very soft and tacky, good low temperature behaviour

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**AC 75013** Removable tapes, anti-slip coatings

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**AC 75022** Impregnation of sealing tapes, Tackifier Dispersion  
High solid, very soft and tacky

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**AC 75032** Tapes for roof construction  
High water resistance, high initial tack

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**AC 75063** Tapes for construction  
Suitable for the production of tapes that meet the requirements for low-emission flooring adhesives (EMICODE EC1 Plus)  
Good balance of adhesion and cohesion

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**AC 75066** Tapes for automotive  
High cohesion and heat resistance

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**AC 75070** Tapes for construction, automotive  
Suitable for the production of tapes that meet the requirements for low-emission flooring adhesives (EMICODE EC1 Plus)  
Good adhesion to different substrates, good balance of adhesion and cohesion, high initial tack, high peel

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**AC 75222** Tapes for automotive & labels  
High cohesion and heat resistance, repositionable

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**AC 75241** Tapes for construction, automotive & labels  
Very high cohesion and heat resistance, high initial tack

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**AC 75275** Removable tapes, protective films

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## Specialty Tapes / Labels

	Solids [%]	pH-Value	Viscosity Brookfield [mPa s]	Tg [°C]	Loop Tack [N/inch]	Peel Strength, 180° [N/inch]	Shear Resist., RT 10 N/6,25cm <sup>2</sup> [h]	Dynamic Shear Resist. [N/cm <sup>2</sup> ]	Heat Resistance „Ford“ [°C]
<b>AC 75011</b>	60	5.5–6.5	100– 1,500	-62					
<b>AC 75013</b>	60	6.0–7.0	100– 1,500	-43	5	2	>1,000	50	>160
<b>AC 75022</b>	67	4.0–6.0	200– 1,500	-40	35	17	0.5	30	52
<b>AC 75032</b>	60	6.0–7.0	500– 1,500	-35	26	26	3	50	90
<b>AC 75063</b>	65	3.5–5.0	1,000– 3,000	-39	23	24	30	55	130
<b>AC 75066</b>	62	5.0–6.5	500– 3,000	-39	29	24	>500	60	>160
<b>AC 75070</b>	65	3.0–5.0	2,000– 5,000	-34	28	26	25	55	125
<b>AC 75222</b>	68	4.5–5.5	2,000– 5,000	-46	27	21	>500	60	>160
<b>AC 75241</b>	65	4.0–5.0	3,000– 5,000	-32	20	16	>1,000	60	>160
<b>AC 75275</b>	60	4.5–5.5	100– 1,000	-51	10	10	500	61	>160

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## Paper adhesives

**AC 75022** Envelopes, Food packaging  
High solid, high initial tack

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**AC 75070** Food packaging  
High tack, high peel

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**AC 75222** Envelopes, Food packaging  
High solid, high cohesion

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**AC 75241** Food packaging  
High tack, very high cohesion

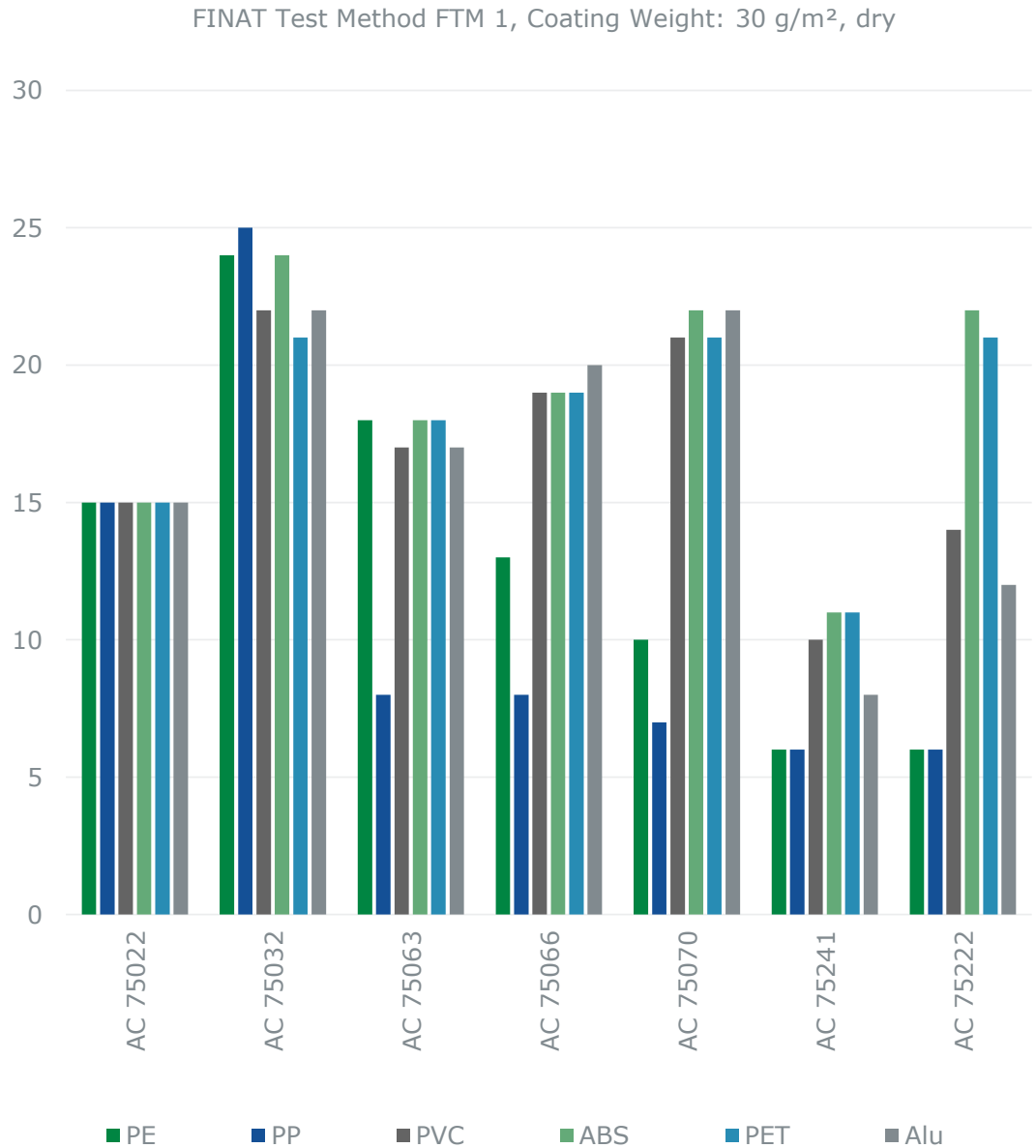
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Food Contact and registration status:

For detailed information please ask for our Regulatory Information Sheet



## Application Data / Peel Strength on different substrates



## Application Data / Peel Strength on different substrates

FINAT Test Method FTM 1, Coating Weight: 65 g/m<sup>2</sup>, dry





## Suitable raw materials for formulation

### Defoamers:

Tego Antifoam 2-57 (Evonik)	BYK-094 (BYK Chemie)
Tego Foamex 822 (Evonik)	BYK-039 (BYK Chemie)

### Substrate wetting agents:

BYK-3400 (BYK Chemie)	Dow Corning 67 (Dow Corning)
Tegopren 5840 (Evonik)	BYK-3410 (BYK Chemie)
Tegopren 5890 (Evonik)	BYK-349 (BYK Chemie)

### Rheology modifiers:

Tego Rheo 8600 (Evonik), for food contact application	
OPTIFLO-H 3300 VF (BYK Chemie)	Tego Rheo 8510 (Evonik)
Coapur 830 W (Coatex)	Coatex BR 125 NPF (Coatex)
Rheovis PU 1190 (BASF)	Borchi Gel L 75 N (Borchers)
Coapur XS 22 (Coatex)	

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



## Modifiers for Pressure Sensitive Adhesives

**AC 2511** Hard acrylic dispersion, increases cohesion at levels of 3 – 5%

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**AC 5503** Self-crosslinking acrylate, increases cohesion

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	Solids [%]	pH-value	Viscosity Brookfield [mPa s]
<b>AC 2511</b>	42	7.0–9.0	20–150
<b>AC 5503</b>	51	7.0–9.0	1,000–5,000

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## Polyurethanes/Acrylics for Laminating Adhesives

	Application
<b>U 3251*</b>	Polyester PU for lamination, soft and flexible
<b>U 400 N*</b>	Polyether PU for lamination, high hydrolysis resistance, Adhesion Primer
<b>U 460*</b>	Polyether PU for lamination, good adhesion to different substrates, furniture foil lamination with good heat- and hydrolysis resistance, leather adhesives
<b>U 355</b>	Polyether PU for lamination, good adhesion to a variety of substrates
<b>U 4020</b>	Polyether PU, blister varnish for cardboard & plastics with low activation temperature
<b>U 4040</b>	Lamination, Adhesion Primer especially for shoe soles (EVA), good heat- and water resistance
<b>U 4101</b>	Polyether PU, tacky, good adhesion to different substrates, high hydrolysis resistance, low activation temperature, contact adhesives
<b>U 5201</b>	Polyester PU for lamination, high water resistance
<b>AC 4605</b>	Heat sealable coatings for food packaging, good barrier properties on paper
<b>AC 548</b>	Lamination, block-free Acrylate, Combination partner for PU's
<b>AC 5503</b>	Self-crosslinking acrylate, for lamination

**\*Also available with renewable content**

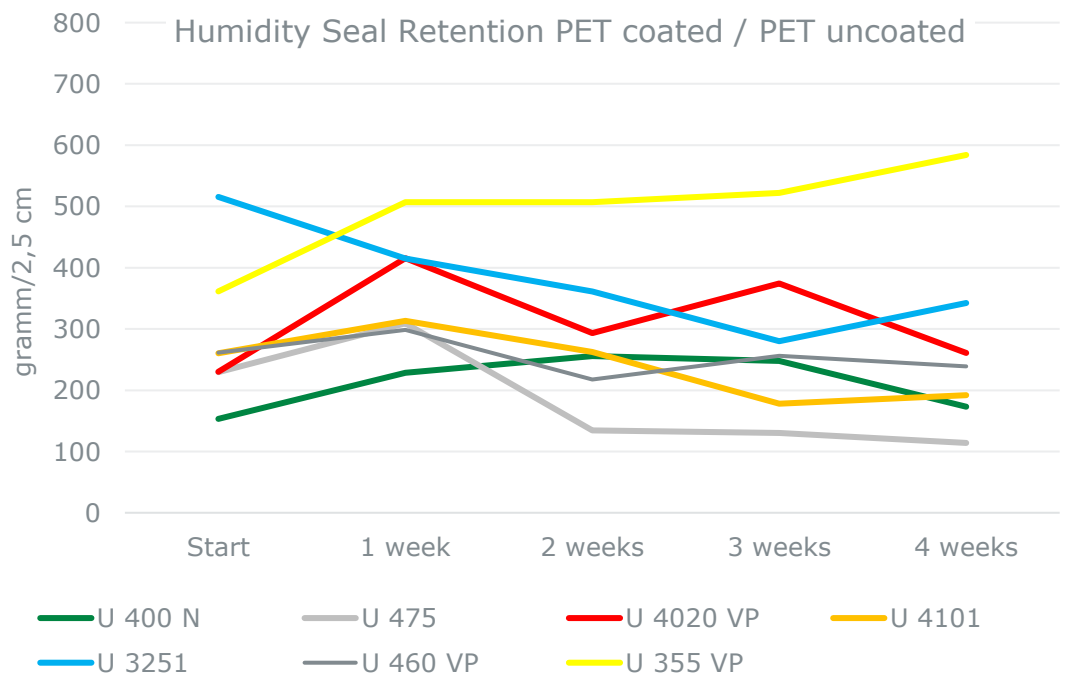
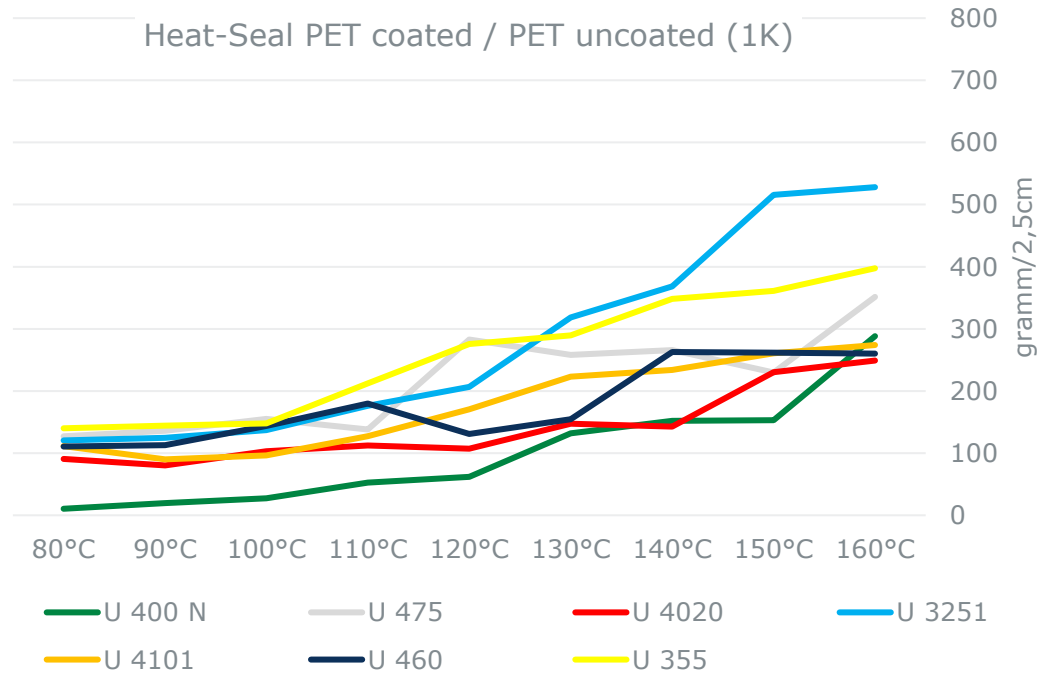




## Polyurethanes/Acrylics for Laminating Adhesives

	Solids content [%]	pH-Value	Viscosity Brookfield [mPa s]	Activating-temperature [°C]
<b>U 3251*</b>	40	7.0–8.0	20–200	> 70
<b>U 400 N*</b>	40	7.0–8.0	20–200	> 110
<b>U 460*</b>	40	7.0–8.5	50–500	> 80
<b>U 355</b>	35	7.0–8.5	500–1000	> 80
<b>U 4040</b>	45	7.0–8.0	100–2,000	> 110
<b>U 4020</b>	40	7.0–8.5	20–500	> 80
<b>U 4101</b>	40	7.0–8.5	50–750	tacky
<b>U 5201</b>	40	7.0–8.5	20–300	>80
<b>AC 4605</b>	50	8.0–9.0	40–600	>80
<b>AC 548</b>	50	7.5–8.5	3,000–6,000	> 90
<b>AC 5503</b>	50	7.0–9.0	1,000–5,000	> 80

**\*Also available with renewable content**

**Polyurethanes/Acrylics for Laminating Adhesives**


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## Speciality Products

<b>AC 2575</b>	For hobby glue (when neutralized with potassiumhydroxide/ ammonia), washable
<b>AC 7700</b>	Translucent, solvent-free, all purpose glue, washable
<b>AS 2040</b>	Acrylic styrene copolymer dispersion. For flexible sealants and screeds, very good cement- and bitumen- compatibility
<b>U 205</b>	Release coating for craft liner
<b>SC 4450</b>	Mixing Partner for polychloroprene adhesives to improve cohesion and heat stability
<b>U 4000*</b>	Primer for plastic substrates (e.g. corona treated BOPP film), suitable for indirect food contact (EU No.10/2011)
<b>U 4500*</b>	Hydrazine free primer for plastic substrates (e.g. corona treated BOPP film), suitable for indirect food contact (EU No.10/2011, Swiss Ordinance 817.023.021 Annex X)

**\*Also available with renewable content**



**Specialty Products**

	Solids [%]	pH-value	Viscosity Brookfield [mPa s]
<b>AC 2575</b>	40	4.0–4.5	10-300
<b>AC 7700</b>	44	8.0–8.5	20-200
<b>AS 2040</b>	57	7.0–9.0	1,500–4,500
<b>U 205</b>	40	7.0-8.0	20-200
<b>SC 4450</b>	50	7.5-8.5	500-5,000
<b>U 4000*</b>	30	8.0-9.5	10-200
<b>U 4500*</b>	30	7.0-9.0	20-200

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