









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</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)
- Anti-Slip-Coatings
- Graphic Films
- Heat Activating Adhesives



General Product Overview Pressure Sensitive Adhesives





Specialty Tapes / Labels

AC 75013 Removable tapes, anti-slip coatings

AC 75015 Impregnation of sealing tapes, removable tapes
Very soft and tacky, good low temperature behaviour

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

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

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

AC 75066 Tapes for automotive
High cohesion and heat resistance

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

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

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

AC 75275 Removable tapes, protective films



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 ² [h]	Dynamic Shear Resist. [N/cm ²]	Heat Resistance „Ford“ [°C]
AC 75013	60	6.0-7.0	100-1,500	-43	5	2	>1,000	50	>160
AC 75015	60	6.5 – 7.5	100-1,000	-56					
AC 75022	67	4.0-6.0	200-1,500	-40	35	17	0.5	30	52
AC 75032	60	6.0-7.0	500-1,500	-35	26	26	3	50	90
AC 75063	65	3.5-5.0	1,000-3,000	-39	23	24	30	55	130
AC 75066	62	5.0-6.5	500-3,000	-39	29	24	>500	60	>160
AC 75070	65	3.0-5.0	2,000-5,000	-34	28	26	25	55	125
AC 75222	68	4.5-5.5	2,000-5,000	-46	27	21	>500	60	>160
AC 75241	65	4.0-5.0	3,000-5,000	-32	20	16	>1,000	60	>160
AC 75275	60	4.5-5.5	100-1,000	-51	10	10	500	61	>160



Paper adhesives

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

AC 75070 Food packaging
High tack, high peel

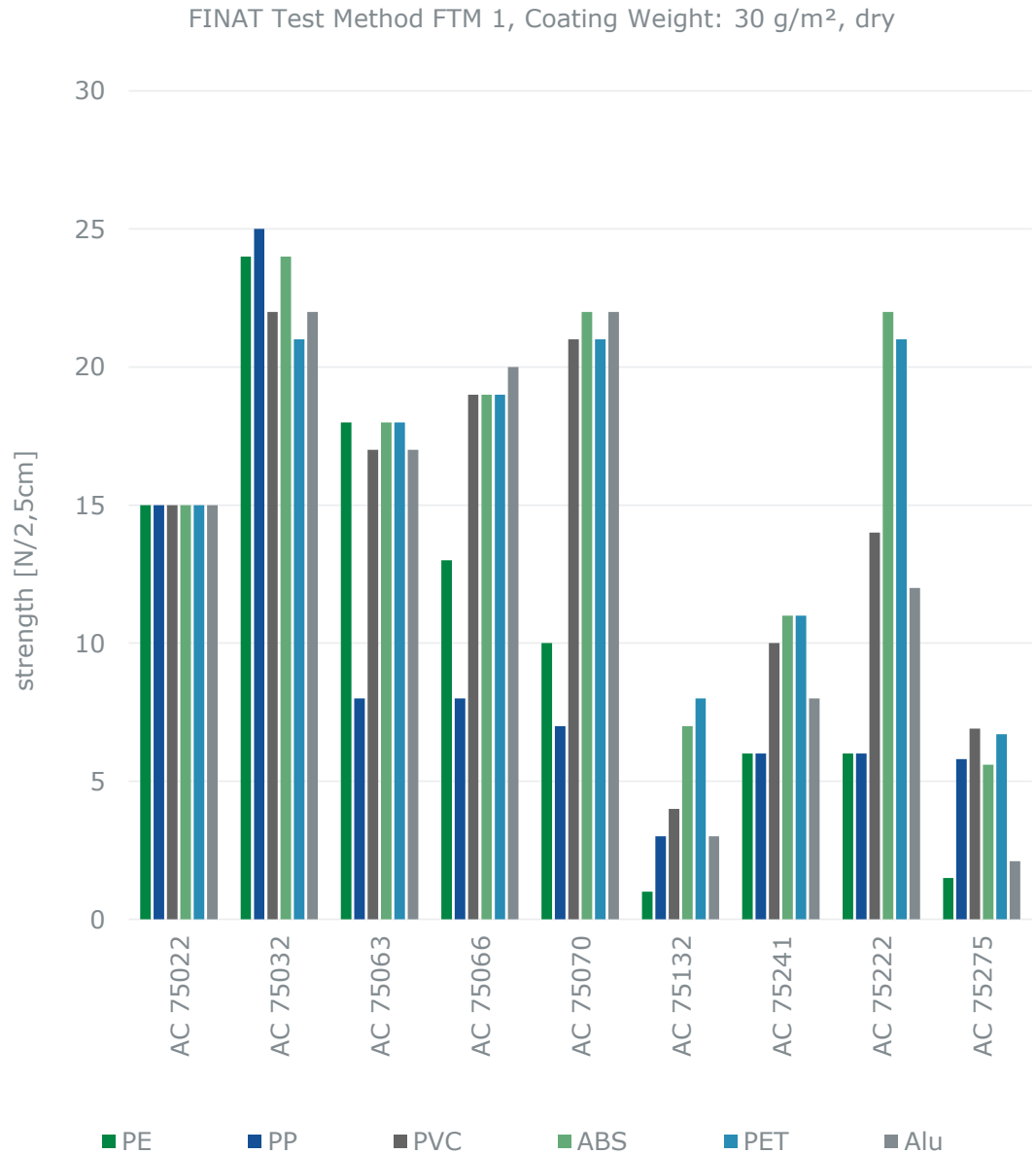
AC 75222 Envelopes, Food packaging
High solid, high cohesion

AC 75241 Food packaging
High tack, very high cohesion

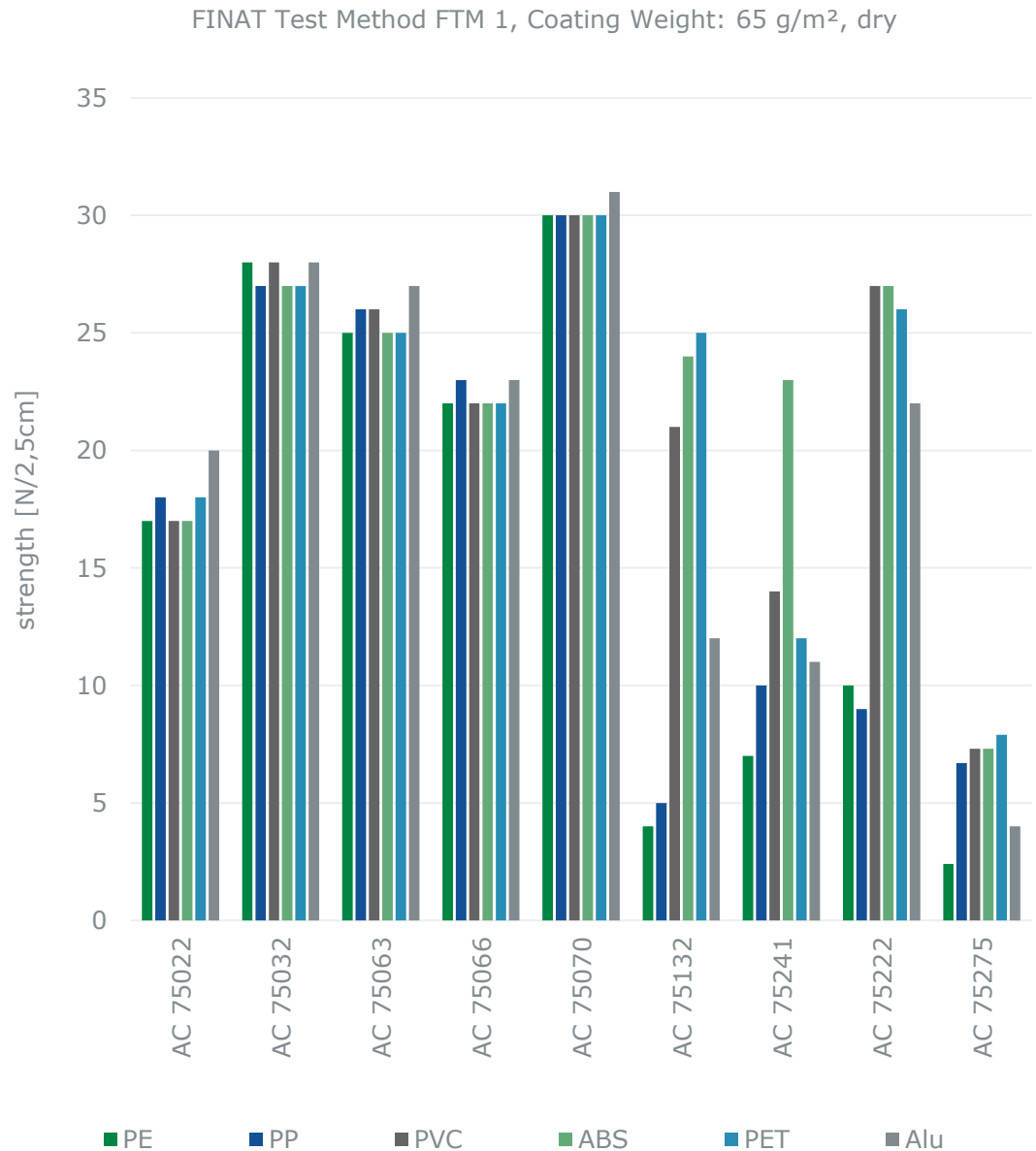
Food Contact and registration status:

For detailed information please ask for our Regulatory Information Sheet



Application Data / Peel Strength on different substrates


Application Data / Peel Strength on different substrates





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%

AC 5503 Self-crosslinking acrylate, increases cohesion

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



Polyurethanes/Acrylics for Laminating Adhesives

	Application
U 3251*	Polyester PU for lamination, soft and flexible
U 400 N*	Polyether PU for lamination, high hydrolysis resistance, Adhesion Primer
U 460*	Polyether PU for lamination, good adhesion to different substrates, furniture foil lamination with good heat- and hydrolysis resistance, leather adhesives
U 355	Polyether PU for lamination, good adhesion to a variety of substrates
U 4023	Polyether PU, blister varnish for cardboard & plastics with low activation temperature
U 4040	Lamination, Adhesion Primer especially for shoe soles (EVA), good heat- and water resistance
U 4101	Polyether PU, tacky, good adhesion to different substrates, high hydrolysis resistance, low activation temperature, contact adhesives
U 5201	Polyester PU for lamination, high water resistance
AC 4605	Heat sealable coatings for food packaging, good barrier properties on paper
AC 548	Lamination, block-free Acrylate, Combination partner for PU's
AC 5503	Self-crosslinking acrylate, for lamination

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



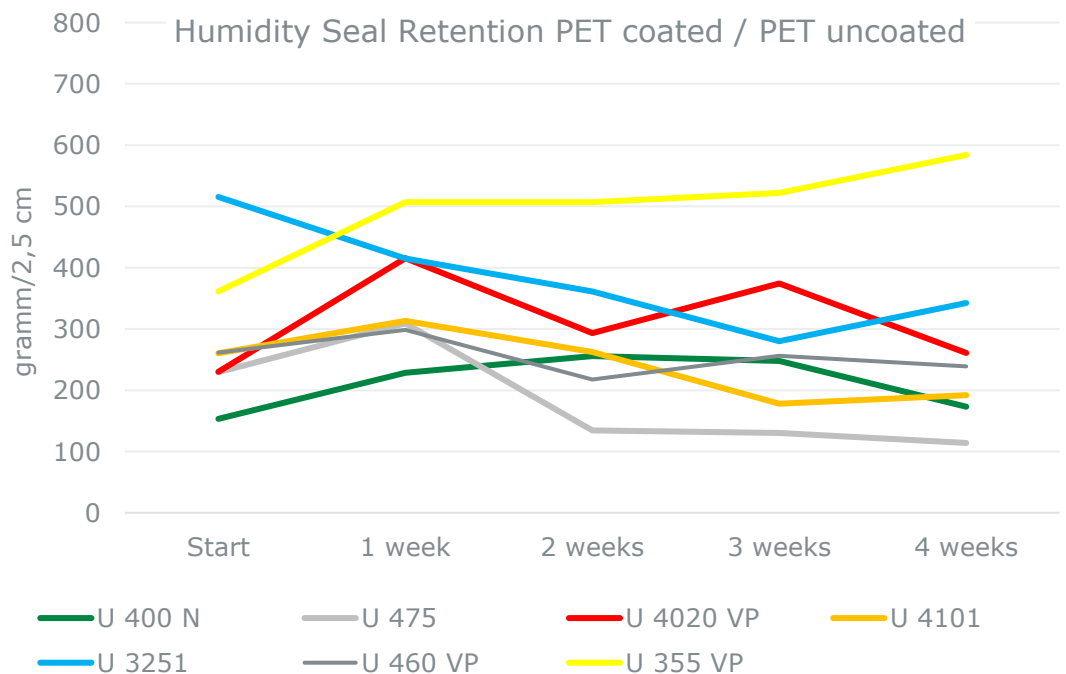
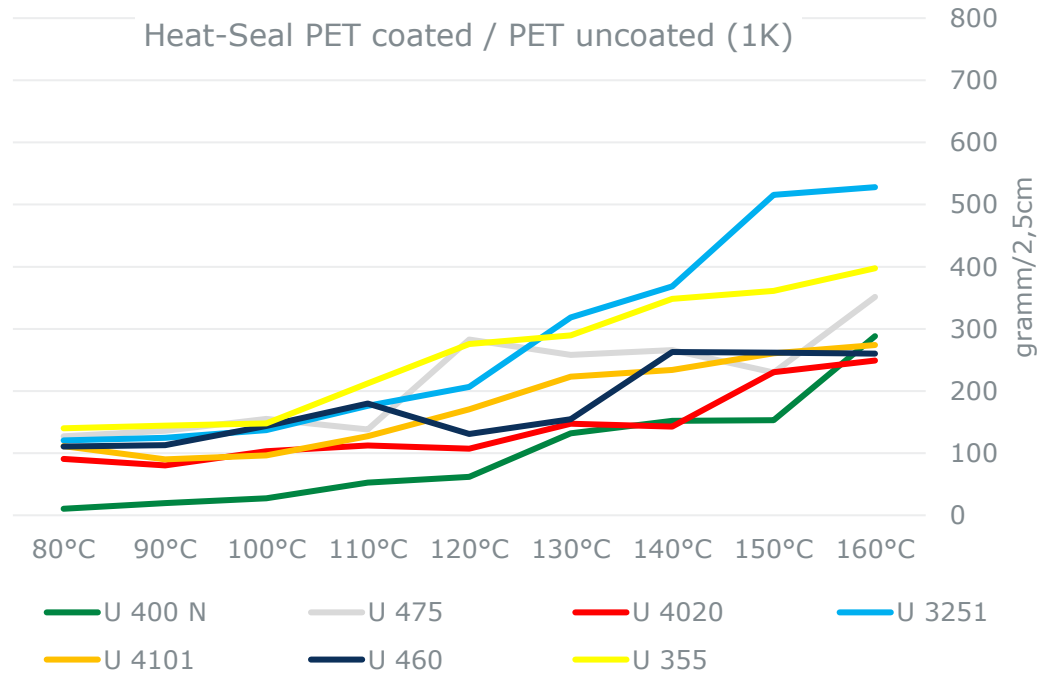


Polyurethanes/Acrylics for Laminating Adhesives

	Solids content [%]	pH-Value	Viscosity Brookfield [mPa s]	Activating-temperature [°C]
U 3251*	40	7.0–8.0	20–200	> 70
U 400 N*	40	7.0–8.0	20–200	> 110
U 460*	40	7.0–8.5	50-500	> 80
U 355	35	7.0-8.5	500-1000	> 80
U 4040	45	7.0–8.0	100–2,000	> 110
U 4023	40	7.0-8.5	20-500	> 80
U 4101	40	7.0–8.5	50-750	tacky
U 5201	40	7.0-8.5	20-300	>80
AC 4605	50	8.0-9.0	40-600	>80
AC 548	50	7.5–8.5	3,000–6,000	> 90
AC 5503	50	7.0–9.0	1,000–5,000	> 80

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

Polyurethanes/Acrylics for Laminating Adhesives





Speciality Products

AC 2575	For hobby glue (when neutralized with potassiumhydroxide/ ammonia), washable
AC 7700	Translucent, solvent-free, all purpose glue, washable
AS 2040	Acrylic styrene copolymer dispersion. For flexible sealants and screeds, very good cement- and bitumen- compatibility
U 205	Release coating for craft liner
SC 4450	Mixing Partner for polychloroprene adhesives to improve cohesion and heat stability
U 4000*	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**





Specialty Products

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

***Also available with renewable content**



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