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Product Guide

# Adhesive Resins

For Asia Pacific



A close-up photograph of tree bark, showing its characteristic scaly, layered texture in shades of brown and tan. A semi-transparent green rectangular overlay is positioned across the upper portion of the image, containing the text 'Better, Sustainable chemistry' in white.

Better, Sustainable chemistry



## Lawter™ has over 70 years of experience in creating innovative solutions

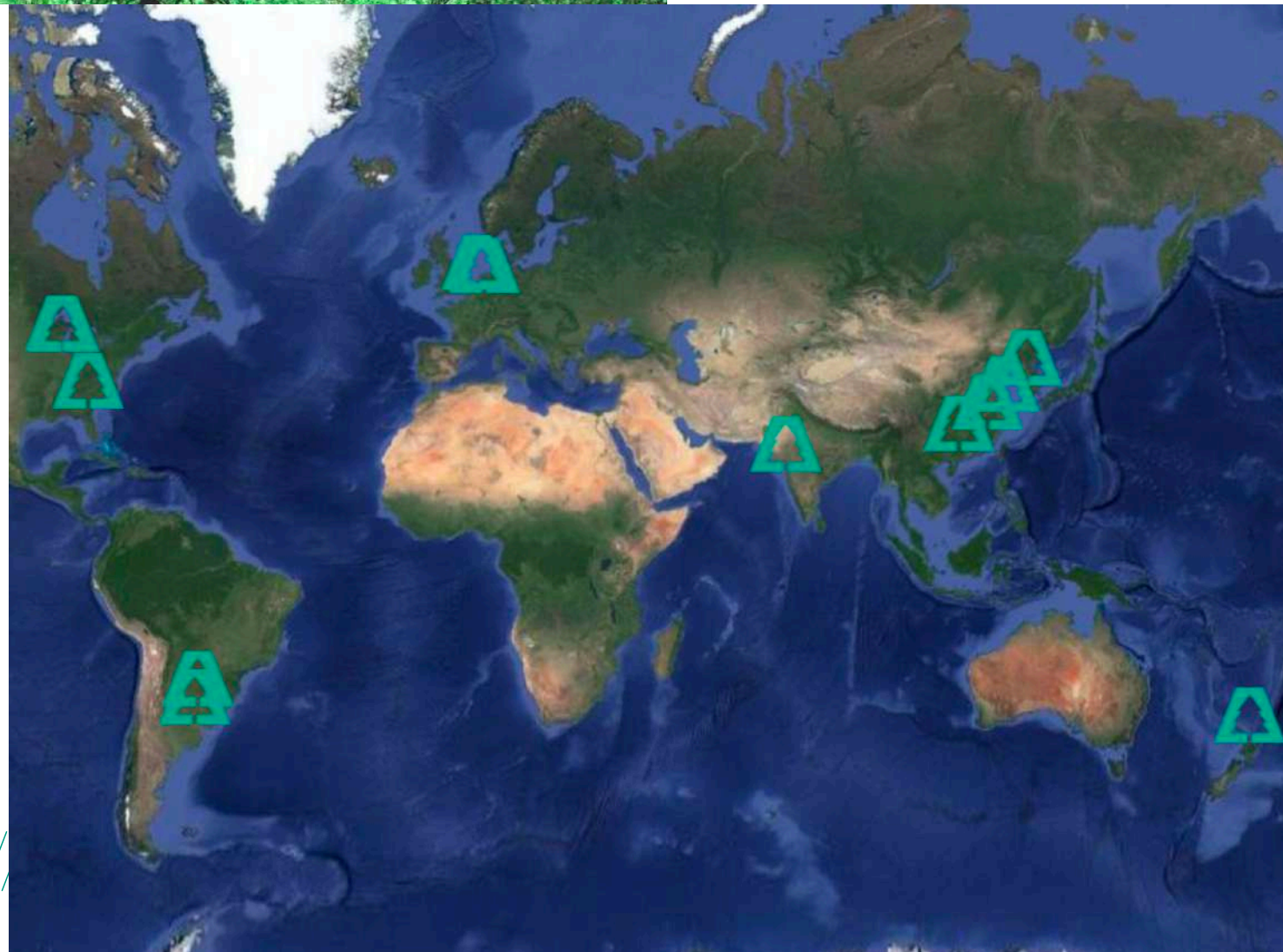
Our global network of manufacturing plants gives us the ability to serve customers around the world. And with products formulated to meet thousands of diverse end-use applications, we are experts in serving a wide variety of industries.

With so many customers counting on us, our sales and production teams are backed by technical service and support that sets the industry standard. In an increasingly competitive world, you can count on Lawter to find a cost-effective and innovative solution to your industrial bonding and binding needs.



# Lawter is a leading global supplier of resins and resin dispersions for adhesives.

Our resin derivatives are also used in applications such as pigments, rubber intermediates, aroma chemicals and road marking.



## Global presence

Lawter’s customers enjoy the benefits of global manufacturing, paired with regional support. Our production sites are located in:

- United States
- The Netherlands
- Belgium
- South Korea
- China
- New Zealand
- Argentina

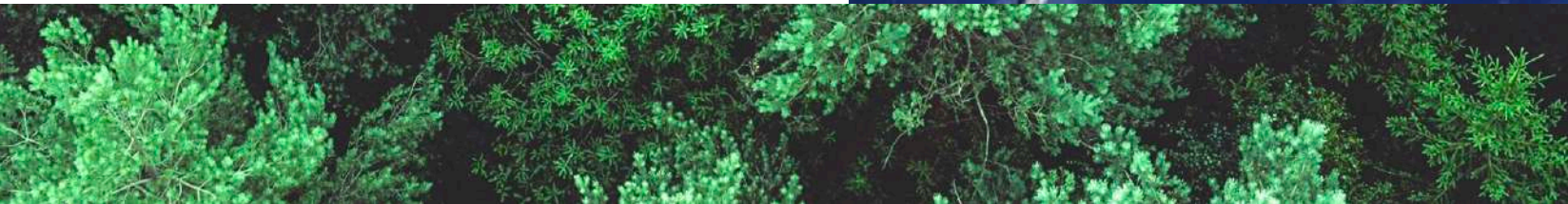
## Technical support

Your products are important to us. With technical service labs located in key regions of the world, Lawter is able to work closely with customers to achieve product excellence and value.

Our knowledge of resin chemistry paired with our customer’s expertise has led to some exciting new products, including our latest waterborne tackifier systems.

## Renewable raw material sources

Many of our raw materials are derived from renewable sources such as the rosin tapped from pine trees or from the pulp-making process for the paper industry.





# Research and development

We work in close cooperation with our customers to improve their results and help create value. This collaboration achieves the required results.

We have a proud history of creating innovative and successful solutions to meet the exact requirements in all the industries we serve. Combining our knowledge of resin chemistry and our customer's expertise in their field of excellence has been the impulse for the creation of new resin types, like our latest waterborne tackifier systems. Customised products are developed by working under mutually confidential conditions. We also have product development centers located in all key regions.



# Snowtack® tackifier dispersions

Capitalizing upon technology that dates back to the first stable colloidal resin emulsions produced during the 1920s, Lawter has developed a wide range of tackifying dispersions which are specifically designed to serve the needs of the adhesive and surface coating Industries.

Snowtack® tackifier resin dispersions are aqueous, solvent-free dispersions for the manufacture of pressure-sensitive adhesives based on acrylic, natural rubber or SBR emulsions. When formulated correctly, they provide an excellent balance of adhesion and cohesion to a wide range of substrates. Snowtack® can run on industry standard coaters at high speed due to its excellent stability. Snowtack® is an environmentally friendly component for your adhesive. All Snowtack® grades are alkyl phenol ethoxylate (APE) free.

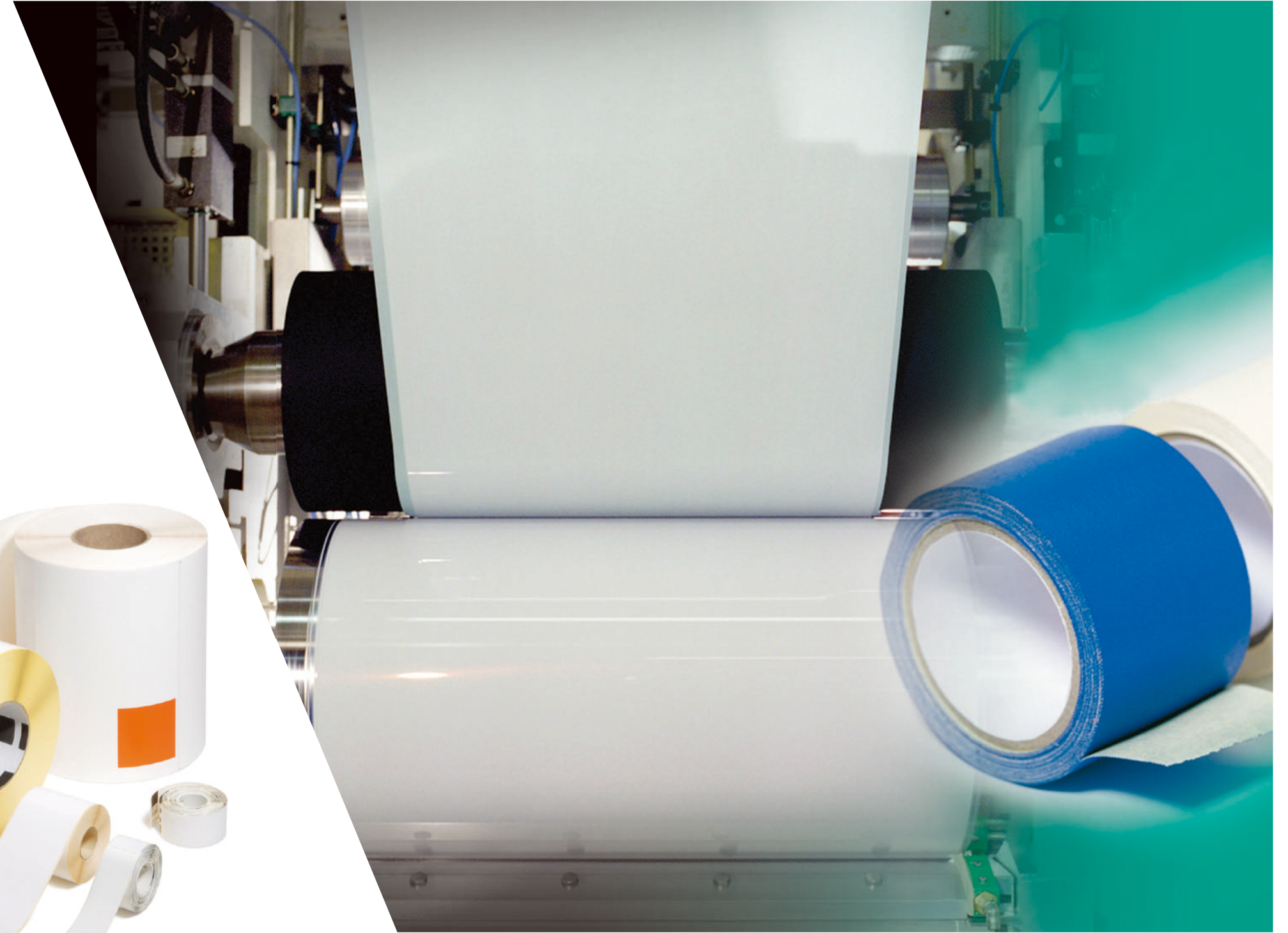
## Markets and applications

### Waterborne Pressure-Sensitive Adhesive:

- Paper label, filmic label and tape

### Waterborne Adhesive:

- Automotive
- Building and construction
- Bottle Labelling



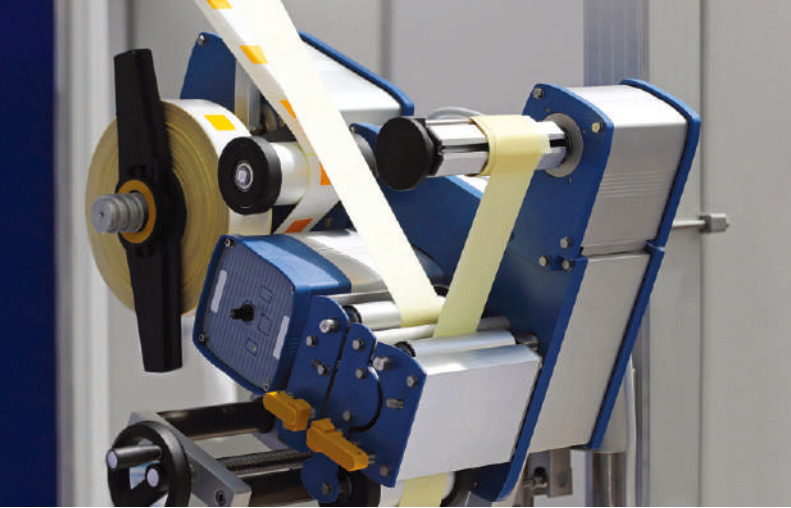


# Burez<sup>®</sup> rosin soaps

Burez<sup>®</sup> soaps are based upon disproportionated and modified rosins, saponified with sodium or potassium hydroxide. All our soaps have good stability and excellent resistance to crystallization and are available in a range of differing solids and viscosities. The Burez range has been mainly designed for three specific applications: emulsion polymerization, organic pigment production and wet glue formulations.

## Markets and applications

- Emulsifiers for the manufacture of SBR, Polychloroprene rubber, ABS, PVC, and other specialty rubbers
- Modifier/tackifier in wet glues
- Pigment coating
- Lubricant
- Plasticizer



# Pinerez® and Pineclear® stabilised rosin esters, modified rosin esters, rosin acids and liquid rosin esters

Pinerez® tackifier resins are recommended to enhance the adhesive performance in Hot melt and solvent-based adhesive applications. They are stabilized, light-colored resins with excellent viscosity stability, and have excellent compatibility with a range of polymers that are widely used in packaging and pressure-sensitive adhesives. These polymers include EVA, SIS, and SBS block copolymers, natural and synthetic rubber, and acrylics. Low VOC Pinerez products provide performance value in water-based, solvent-free flooring adhesives.

## Markets

## and applications

- Hot melt adhesives
- Solvent-based adhesives
- Reactive PUR adhesives
- Construction adhesives
- Rubber compounding
- Sealants
- Depilatory waxes
- Chewing gum
- Water-based flooring adhesives
- Coatings
- Road Markings

## Snowtack® Tackifier Dispersions

### Rosin Acids Dispersions

Dispersion	Dispersion Properties						Dry Properties			Application Comments
	Solids (%)	Viscosity (mPa·s)	pH	Stabiliser	Particle size mean (microns)	Sieve residue at 100 micron (ppm)	Acid value (mg KOH/g)	Softening point (°C)	Glass transition point (°C)	
Snowtack® 765A E	50	500	7.5	anionic	<0.5	<100	>100	64	12	General purpose acid grade tackifier to boost adhesion when formulated with acrylic and SBR PSA polymers.
Snowtack® 779F E	59	350	8.0	anionic	<0.5	<100	>100	75	21	High solids, provides excellent cohesive strength, adhesion and water resistance for PSA tape and label applications.

### Rosin Esters Dispersions

Dispersion	Dispersion Properties						Dry Properties			Application Comments
	Solids (%)	Viscosity (mPa·s)	pH	Stabiliser	Particle size mean (microns)	Sieve residue at 100 micron (ppm)	Acid value (mg KOH/g)	Softening point (°C)	Glass transition point (°C)	
Snowtack® SE 780G C	55	300	9.0	polymeric	<0.6	<100	<20	83	34	Tackifier with excellent resultant cohesive strength, adhesion and water resistance for PSA tape and label applications
Snowtack® SE 790G C	58	500	9.0	polymeric	<0.6	<100	<12	88	39	improved cohesive strength and water resistance for PSA tape and label applications.
Snowtack® 880G C	57	300	9.0	polymeric	<0.6	<100	<20	85	36	A hybrid tackifier designed to improve adhesion to apolar substrates with 2EHA acrylic and SBR PSA polymers.
Snowtack® 881G C	55	300	9.0	polymeric	<0.9	<100	<20	96	40	High softening point tackifier designed to improve adhesion to apolar substrates with 2EHA acrylic and SBR PSA polymers.
Snowtack® 100G E	56.5	300	9.0	polymeric	<0.6	<50	<20	99	60	High softening point tackifier for PSA tape and label applications requiring good cohesion and mandrel performance.
Snowtack® 110X E	58	300	8.0	polymeric	<0.6	<50	<20	110	55	High softening point tackifier for PSA tape applications with good resultant cohesion and SAFT values.
Snowtack® SE724G A	51	400	9.0	polymeric	<1.0	<100	<25	37	-8	Low softening point tackifier designed to provide superior adhesive performance in PSA polymers for a wide range of substrates
Snowtack® GE767C E	55	300	7.5	anionic	<0.5	<50	<25	70	20	Tackifier for packaging and can sealing adhesives, compatible with acrylic, SBR and VAE polymers.

## Hydrogenated Rosin Esters Dispersions

Dispersion	Dispersion Properties						Dry Properties			Application Comments
	Solids (%)	Viscosity (mPa·s)	pH	Stabiliser	Particle size mean (microns)	Sieve residue at 100 micron (ppm)	Acid value (mg KOH/g)	Softening point (°C)	Glass transition point (°C)	
Snowtack® FH95G A	57	300	9.0	polymeric	<0.75	<100	<25	94	45	Fully Hydrogenated resin dispersion based on wood rosin for applications where better compatibility and UV resistance is required. Suitable for use with acrylic and SBR systems.
Snowtack® FH93G A	58	350	9.0	anionic	<0.5	<100	<25	93		Hydrogenated resin dispersion based on gum rosin for applications where better compatibility and UV resistance is required. Suitable for use with acrylic and SBR systems. FDA 175.300 compliant.

### Terpene Phenolic Dispersions

Dispersion	Dispersion Properties						Dry Properties			Application Comments
	Solids (%)	Viscosity (mPa·s)	pH	Stabiliser	Particle size mean (microns)	Sieve residue at 100 micron (ppm)	Acid value (mg KOH/g)	Softening point (°C)	Glass transition point (°C)	
Snowtack® TP600G E	57	300	9.0	polymeric	<0.75	<100		100	45	Terpene Phenolic dispersion where high heat resistance is needed. Suitable for use with acrylic, SBR, natural and synthetic rubber systems.

## Burez® Rosin Soaps

### Burez® Rosin Soaps

Soaps	Solid (%)	pH	Abietic acid (%)	Dehydro Abietate (%)	Application Comments
	Typical Value	Typical Value			
Burez® K25 502D	25	10.6	/	≥7	Potassium soap of high grade disproportionated rosin. The primary used is as emulsifier in the emulsion polymerization process
Burez® NA40 502D	40	9.5	≤0.5	≥18	Sodium soap of high grade disproportionated rosin. The primary use is as an emulsifier in the emulsion polymerization process (ABS and SBR), Adhesive.
Burez® NA45 E	45	13*	/	/	Sodium soap of modified rosin stabilized against crystallization for use in wet bottle labelling adhesives and Pigment resination
Burez® K80 505A E	80	12*	/	/	potassium soap of high grade disproportionated rosin for use in bottle labelling adhesives, an emulsifier in the emulsion polymerization process, and Pigment resination

\*Acid value(mgKOH/g)

## Burez® Disproportionated Rosin

### Burez® Disproportionated Rosin

Soaps	Gardner Colour (50% soln.)	Acid Value (mgKOH/g)	Abietic acid (%)	Dehydroabietic acid (%)	Application Comments
Burez® 501D C	≤4	≤156	≤0.1	≥55	Good stability against oxidation, heat ageing and ultra violet light. The high acid value can be readily saponified with alkali to manufacture a stable light color rosin soap
Burez® 502D C	≤8	≥150	≤0.5	≥45	Good stability against oxidation, heat ageing and ultra violet light. The high acid value can be readily saponified with alkali to manufacture a stable light color rosin soap. The primary use is as an emulsifier in the emulsion polymerization process (ABS and SBR), Adhesive.
Burez® 504D C	≤3.5	≤154	/	≥59	Good stability against oxidation, heat ageing and ultra violet light. The high acid value can be readily saponified with alkali to manufacture a stable light color rosin soap

## Pinerez® Solid Tackifier Resins

### Resins for Solvent-based adhesives and Hot Melt Adhesives

Resin	Softening point (°C)(R&B)	Colour (colour mold)	Acid Value (mgKOH/g)	Type	Application Comments
	Typical Value	Typical Value	Typical Value		
Pinerez® M-453 C	103	5	23	Modified Rosin Ester	excellent performance as a tackifier for various adhesives
Pinerez® NH-2000 C	97	8	3	Disproportionated Rosin Ester	excellent performance as a tackifier for various adhesives
Pinerez® NH-3011 C	130	10	12	Modified Rosin Ester	excellent performance as a tackifier for various adhesives
Pinerez® P C	101	8	11	Modified Rosin Ester	excellent performance as a tackifier for various adhesives, tire application
Pinerez® PCJ C	121	11	13	Modified Rosin Ester	excellent performance as a tackifier for various adhesives
Pinerez® ER 95 C	90	5	10	Modified Rosin Ester	excellent performance as a tackifier for various adhesives
Pinerez® F85 C	85	5	9	Highly Stable Modified Rosin Ester	excellent performance as a tackifier for various adhesives
DS-816N	145	8	12	Modified Polymerized Rosin Ester	excellent performance as a tackifier for various adhesives
DS-822 C	168	10	12	Modified Polymerized Rosin Ester	excellent performance as a tackifier for various adhesives
FK125	124	9	16	Modified Rosin Ester	excellent performance as a tackifier for various adhesives

### Resins for Solvent-based adhesives and Hot Melt Adhesives

Resin	Softening point (°C)(R&B)	Colour (colour mold)	Acid Value (mgKOH/g)	Type	Application Comments
	Typical Value	Typical Value	Typical Value		
R-100	101	5	22	Modified Rosin Ester	excellent performance as a tackifier for various adhesives
T-80	84	7	176	Modified Rosin Ester	excellent performance as a tackifier for various adhesives. Suitable for scaling powder and tire application.

### Resins for Flooring Adhesives

Resin	Softening point (°C)(R&B)	Gardner Colour (50% soln.)	Acid Value (mgKOH/g)	Viscosity (mPa.s)	Application Comments
	Typical Value	Typical Value	Typical Value	Typical Value	
Pinerez® 7016 C	-	7*	12	1000(50°C)	A low viscosity ester of rosin that has low VOCs. improves adhesion and meets the requirements for EC1 and Blue Angel adhesives

\* 50% in toluene

### Resins for Special Adhesives

Resin	Softening point	Ash (% w/w.)	Metallic Zinc Content (%)	Metallic Calcium Content (%)	Application Comments
	Typical Value	Typical Value	Typical Value	Typical Value	
Pinerez™ 9089	144	11.5	8.4-8.9	0.55-0.58	high tack for pressure sensitive hot melt adhesive, suitable accelerators (Rubber based adhesive) to accelerate crosslinking

## Reactol™ Specialty Products

### Specialty Resin

Resin	Softening point (°C)(R&B)	Colour (colour mold)	Acid Value (mgKOH/g)	Type	Application Comments
	Typical Value	Typical Value	Typical Value		
Reactol™ UV-T90 C	88	1	18	Polyester	UV hot melt adhesive, solvent based adhesive



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Better, Sustainable chemistry

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