























Science from Nature

ECOLOGICAL AND SUSTAINABLE SOLUTIONS





Years of experience, knowledge and innovation, along with our customers' expertise and close cooperation, allow us to deliver the best performing solutions to an ever-changing and challenging market.

TRADITION AND MODERNITY

Our first rosin plant was established in the 1970s. Since then, our focus is the valorization of the forest by developing an intelligent and sustainable bio-economy, transforming bio-based raw materials into high added valued materials. Starting from local crude gum rosin, we have focused on developing and delivering to the market high quality rosin derivatives.

This sustainable strategy was intensified with the aquisition of Forchem Oy, which operates one of the largest and modern bio-refineries in the world. A renewable resource such as crude tall oil offers low carbon footprint solutions for everyday products such as printing inks, adhesives and coatings.







ADVANCED PRODUCTION FACILITIES

Respol runs a highly efficient plant with a global production capacity of 50,000 tons/year, having earned ISO 9001, ISO 14001 and OHSAS 18001 certifications.

Our committed and experienced personnel help us keeping quality and safety as our main priorities.

Tackifiers for adhesives

Product line	PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	COLOUR (50% toluene)	Properties and application recommendations
POLIMELT Tall oil rosin ester	P 88	≪10	80-90	< 4	Light and stable glycerol rosin ester recommended for hot melt adhesives.
	P 90	< 6	85-92	< 4	Highly stable glycerol rosin ester with medium softening point, ideal for pressure sensitive adhesive
	P 98	«10	95-100	< 4	Light and stable pentaerythritol rosin esters with low odor. Recommended for hot melt adhesives for packaging, bookbinding and pressure sensitive.
	P 101	«10	97-102	< 4	
	P 105	«10	102-108	∢ 4	High softening point pentaerythritol rosin ester with improved heat stability.
	P 115	«10	112-117	« 6	Very high softening point pentaerythritol rosin ester with very low odor and volatility.
	P 120	« 20	114-120	« 6	Pentaerythritol rosin ester with high softening point and high heat resistance.
	P 6302	80-90	80-90	« 4	High acid value and medium softening point glycerol rosin ester designed for specialty packaging hot melt adhesives.
TERGUM Gum rosin ester	T 100	≪20	92-98	« 5	Pentaerythritol rosin esters with excellent stability. Recommended for hot melt adhesives for packaging, bookbinding and pressure sensitive.
	T 103	«20	98-105	« 5	
	T 120	«15	114-120	∢ 6	Pentaerythritol rosin ester with high softening point and high heat resistance. Recommended for hot melt adhesives.
	T 385	«12	80-86	« 5	Glycerol rosin ester for hot melt adhesives with increased tack requirements. Recommended for packaging and flooring adhesives and depilatory waxes. EC1 and Blue Angel compliant.
	Т 390	≪10	85-91	« 5	
TERGUM Non crystallizing gum rosin	Т 19	135-155	85-95	≪ 8	Non crystallizing gum rosin with low volatile content. Ideal for flooring adhesives and pressure sensitive adhesives.
GUM ROSIN	Gum rosin	162-182	72-87	≪ 8	Recommended as tackifier for use in adhesives, varnishes, inks and as raw material for modified resins.
Product line	PRODUCT	ACID VALUE (mg KOH/g)	COLOUR (50% toluene)	VISCOSITY (P, 50°C)	Properties and application recommendations
TERGUM Liquid gum rosin esters	Т 39	« 20	∢7	10-30	Very low viscosity and low VOC liquid rosin ester, recommended for flooring adhesives and as tack promoter in hot melt adhesives.
	T 42	« 15	« 9	20-40	Low viscosity and low VOC liquid rosin ester used in flooring adhesives as viscosity regulator and tack promoter. EC1 and Blue Angel compliant.
	T 47	« 15	∢ 9	230-280	Liquid rosin ester recommended for depilatory waxes. Can also be used in flooring and natural rubber based adhesives. EC1 and Blue Angel compliant.
	T 49	« 15	« 7	320-420	

As we cannot anticipate all conditions under which our products may be used, we accept no responsibility for results obtained by the application of this information or by the use of our products, either used alone or in combination with other products. Users are invited to make their own tests to determine the suitability or the safety of each such

product for their own purposes. With the exception of the above approved specifications, we sell the products without warranty, buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products, either used alone or in combination with other products.





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