

Tackifiers



agendaciachativa.pt

# Science from Nature

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# Science from Nature

**Ecological and sustainable solutions**

**Global applications**

- Adhesives
- Coatings
- Cosmetics
- Printing inks
- Road markings
- Sealants



Our history goes back to 1973, with the establishment of our first rosin plant, to produce **gum rosin** and **gum turpentine** from local crude gum, a raw material originated in **pine trees**. In 1993, with the foundation of **Respol Resinas, S.A.**, we moved further on the **rosin value chain** and pursued the development, production, and distribution of **rosin derivatives**. The growth of the company was intensified in 2013 with the acquisition of **Forchem**, which operates one of the largest and most modern **biorefineries** in the world.

**Sustainability** is at the core of our business philosophy and strategy: to use **sustainably sourced crude tall oil and gum rosin**, upgrade it into **high added value biobased solutions** that replace fossil-based materials, and put great emphasis on **safeguarding the environment** and sustainability of all operations.

## Tackifiers

PRODUCT LINE	PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	COLOUR (1:1 Toluene)	Biobased content (%)	Hotmelt	PSA	Product Assembly	Construction, Flooring	Depilatory Waxes	Road Marking
<b>POLIMELT X</b> Tall Oil Rosin Esters	P X 90	3	87	1,1	100	x	x	x	x	x	x
	P X 100	4	98	1,6	94	x	x	x	x	x	x
	P X 105	5	102	1,1	94	x	x	x	x	x	x
	P X 1100	4	103	0,8	94	x	x	x	x	x	x
<b>POLIMELT</b> Tall Oil Rosin Esters	P 6302	82	93	3,7	98	x	x	x	x	x	x
	P 88	3	86	1,1	99	x	x	x	x	x	x
	P 90	3	87	1,0	99	x	x	x	x	x	x
	P 98	5	98	1,7	94	x	x	x	x	x	x
	P 101	5	99	1,7	94	x	x	x	x	x	x
	P 102 R	6	100	2,0	89						x
	P 105	4	104	1,8	88	x	x	x	x	x	x
	P 120	14	117	4,0	82	x	x	x	x	x	x
<b>TERGUM</b> Gum Rosin Esters	T 100	14	97	4,0	93	x	x	x	x	x	x
	T 103	13	103	4,2	93	x	x	x	x	x	x
	T 115	14	113	4,3	80	x	x	x	x	x	x
	T 120	14	116	4,0	83	x	x	x	x	x	x
	T 385	7	85	4,0	100	x	x	x	x	x	x
	T 390	7	87	4,0	100	x	x	x	x	x	x
<b>TERGUM</b> Non crystallizing Gum rosin	T 19	135-155	85 - 95	< 8	98			x	x		

PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	COLOUR (1:1 Toluene)	Biobased content (%)	Relative Density (20°C)	Refractive Index (20°C)	Optical Rotation (20°)
<b>GUM ROSIN</b>	160 - 180	77 - 83	< 8	100	-	-	-
<b>GUM TURPENTINE</b>	< 2	-	-	100	0,860-0,875	1,465-1,478	-28 - -39

PRODUCT LINE	PRODUCT	ACID VALUE (mg KOH/g)	VISCOSITY (P, 50 °C)	COLOUR (1:1 Toluene)	Biobased content (%)	Adhesives	Construction & Flooring	Depilatory Waxes
<b>TERGUM</b> Liquid Rosin Esters	P 25	17	300	2,5	88	x	x	
	P 425	9	25	3,0	86	x	x	
	T 39	14	12	5,0	83	x	x	
	T 42	8	30	4,5	86	x	x	
	T 47	11	200	3,4	90			x
	T 49	12	350	2,5	92			x

PRODUCT LINE	PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	COLOUR (1:1 Toluene)	Biobased content (%)	Wood Coatings	Paints & Varnishes	Road Marking
<b>TERTAC</b> Maleic Modified Rosin Esters	TT 310	37	108	3,5	95			x
	TT N 320	24	118	4,5	94	x	x	x
	TT N 340	30	130	5,0	93	x	x	x

DRY PROPERTIES	PRODUCT	ACID VALUE (mg KOH/g)	SOFTENING POINT (°C)	SOLID CONTENT (%)	PH	VISCOSITY, mPa.s, 20°C	PARTICLE SIZE, µm	STABILIZER	APPLICATIONS
	A 750	> 150	70 - 90	35 - 40	3 - 4	< 100	< 0,25	Anionic	
<b>AQUAMELT</b> Resin Dispersions	A 751	> 150	70 - 90	50 - 55	6 - 8	< 100	< 0,25	Anionic	
	A 250	< 20	< 30	50 - 55	6 - 8	< 5000	< 0,25	Anionic	
	A 800	< 20	75 - 85	50 - 55	6 - 8	< 1000	< 0,25	Anionic	
	A 900	< 20	85 - 95	50 - 55	6 - 8	< 1000	< 0,25	Anionic	
									Tapes & Labels, Paper Sizing

The values shown are typical properties and should not be interpreted as product specifications.  
Biobased content (%) is based on total mass, as in EN 16785 definition.