

RESIPUR®
Unsaturated Polyester Resins

Resiquímica 

Legend:

Iso – Isophtalic

Orto – Orthophatalic

LSE – Low styrene emission

PI – Peroxide Indicator

PA - Pre-accelerated

TX - Thixotropic

Co – Cobalt Octoato

PMEK - Methyl ethyl ketone peroxide

TBPB – Ter-butyl Peroxybenzoate

Cure Conditions:

No pre-accelerated resins – 0.2% Co at 0.6% + 2% PMEK at 50%

Pre-accelerated resins - 2% PMEK at 50%

Exceptions:

Resins for Buttons – 0.1% Co at 0.6% + 2% PMEK at 50%

Resins for Reinforcement of Acrylic Baths – 1.5% PMEK at 50%

Resipur 9834 – 0.2% Co a 6% + 2% TBPB

Hand lay-up, Spray-up

Type	Resipur	Brookfield Viscosity 25°C (mPa.s)	Gel Time 25°C (min)	Polymer Content (%)	HDT (°C)	Features
Iso	5102	500 - 700	8 - 16	62	74	High chemical resistance. Certified for Naval Construction by Lloyd's.
	5103	500 - 700	8 - 16	62	74	High chemical resistance. Food contact.
	5166	350 - 450	10 - 18	54	74	PA, TX. Certified for Naval Construction by Lloyd's.
	5169 *	450 - 550	14 - 22	55	74	PA, TX. Certified for Naval Construction by Lloyd's.
Orto	2166	350 - 450	10 - 18	59	94	PA, TX. High reactivity.
	9022	250 - 450	14 - 22	62	71	Stabilized to tropical climates.
	9023	250 - 450	28 - 38	62	71	Stabilized to tropical climates.
	9043	250 - 350	55 - 65	62	71	PA. Stabilized to tropical climates.
	9106	450 - 650	6 - 14	66	71	Excellent mechanical properties.
	9107	450 - 650	6 - 14	66	71	Excellent mechanical properties. Food contact.
	9108	800 - 1000	6 - 14	68	71	Excellent mechanical properties. Certified for Naval Construction by Lloyd's.
	9112	250 - 450	6 - 14	62	71	High stability to UV radiation.
	9126	350 - 450	10 - 18	56	71	TX, LSE. Excellent mechanical properties.
	9146	500 - 600	14 - 22	66	71	PA. Excellent mechanical properties.
	9163	350 - 450	4 - 8	59	71	PA, TX. Excellent mechanical properties.
	9166 **	350 - 450	10 - 18	59	71	PA, TX. Certified for Naval Construction by Lloyd's.
	9168 **	450 - 550	14 - 22	58	71	PA, TX. Certified for Naval Construction by Lloyd's.
	9566	650 - 750	18 - 26	64	---	PA, TX. High elasticity.
	9586	650 - 750	18 - 26	64	---	PA, TX, LSE. High elasticity.

* Resin available in the following versions: TX; PA/TX/PI.

** Resin available in the following versions: PA/TX/PI; PA/TX/LSE; PA/TX/PI/LSE.

Filament Winding, Injection or RTM

Type	Resipur	Brookfield Viscosity25°C (mPa.s)	Gel Time25°C (min)	Polymer Content (%)	HDT (°C)	Features
Iso	5102	500 - 700	8 - 16	62	74	High chemical resistance. Certified for Naval Construction by Lloyd's.
	5103	500 - 700	8 - 16	62	74	High chemical resistance. Food contact.
Orto	9106	450 - 650	6 - 14	66	71	Excellent mechanical properties.
	9107	450 - 650	6 - 14	66	71	Excellent mechanical properties. Food contact.
	9500	300 - 500	6 - 14	60	71	Excellent mechanical properties. Food contact.
	9504	100 - 200	6 - 14	54	71	Excellent mechanical properties.
	9544	100 - 200	14 - 22	54	71	PA. Excellent mechanical properties.

Pipes

Type	Resipur	Brookfield Viscosity25°C (mPa.s)	Gel Time 25°C (min)	Polymer Content (%)	HDT (°C)	Features
Orto	2100	300 - 400	10 - 18	60	81	High reactivity. Excellent mechanical properties.

Elastic Resin

Type	Resipur	Brookfield Viscosity25°C (mPa.s)	Gel Time 25°C (min)	Polymer Content (%)	Features
Orto	9600	350 - 550	30 - 70	70	High elasticity and impact resistance. May be mix with other resins to adjust mechanical properties.

Reinforcement of Acrylic Baths

Type	Resipur	Brookfield Viscosity25°C (mPa.s)	Gel Time 25°C (min)	Polymer Content (%)	Features
Orto	6550	200 - 300	15 - 22	55	PA, TX. Good adhesion to acrylic.
	6560	350 - 400	10 - 17	58	PA, TX. Good adhesion to acrylic.

Buttons

Type	Resipur	Brookfield Viscosity _{25°C} (mPa.s)	Gel Time _{25°C} (min)	Polymer Content (%)	HDT (°C)	Features
Orto	9312	1600 - 1800	4 - 7	72	46	Application by centrifugation method.
	9317	700 - 900	4 - 7	67	46	Application by centrifugation method.
	9318	700 - 900	4 - 8	68	46	Application by centrifugation method.
	9350	3500 - 4200	10 - 14	70	46	TX. Application by centrifugation method and rod methods.

Marble / Quartz

Type	Resipur	Brookfield Viscosity _{25°C} (mPa.s)	Gel Time _{25°C} (min)	Polymer Content (%)	Features
Orto	9805	450 - 550	8 - 11	65	Synthetic marble – Application by block process.
	9806	550 - 750	9 - 13	65	Synthetic marble – Application by block process.
	9834	500 - 600	5 - 10 ¹	68	Synthetic quartz – Application by cast process. High stability to UV radiation and hydrolyses.
	9548	800 - 1000	5 - 10	68	Mastics and adhesives for marble.

¹ 80°C

Solid Surface

Type	Resipur	Brookfield Viscosity _{25°C} (mPa.s)	Gel Time _{25°C} (min)	Polymer Content (%)	Features
Orto	9844	150 - 250	7 - 12	62	PA. High resistance to thermal shock.
	9845	350 - 450	8 - 14	64	PA. High resistance to thermal shock.

Gel-coats and Top-coats (Base)

Type	Resipur	Brookfield Viscosity _{25°C} (mPa.s)	Gel Time _{25°C} (min)	Polymer Content (%)	HDT (°C)	Features
Orto	2208	900 - 1100	6 - 14	68	81	High reactivity. Excellent mechanical properties.
	9108	800 - 1000	6 - 14	68	71	Excellent mechanical properties.



Resiquímica – Resinas Químicas, S.A.

Rua Francisco Lyon de Castro, 28
2725-397 MEM MARTINS
PORTUGAL
Tel: +351 219 269 700
Fax: +351 219 269 780

Rua da Central, nº 790 - Lugar de Póvoas
Zona Industrial de Campo
4440-043 CAMPO - VALONGO
PORTUGAL
Tel: +351 222 076 154/5
Fax: +351 222 076 157

www.resiquimica.pt