

PPT-5536 / PTT-5539 / PPT-5540

DESCRIPTION

The PPT-5536, PPT-5539, and PPT-5540 are pre-promoted, thixotropic, unsaturated polyester resins.

FEATURES AND BENEFITS

- Quick wet out/roll out properties
- Fast cycle of curing.
- Low viscosity.
- Good acrylic adherence.

APPLICATIONS

- Acrylic tubs and washbasins, FRP parts, Hand lay-up, Spray-up.

TYPICAL LIQUID PROPERTIES

Property	Units	PPT-5536	PPT-5539	PPT-5540	Test Method
Acid Number (Solution)	Mg KOH / g sample	30 max	30 max	45 max	TARQ-100
Non-volatile content	%	52 - 54	52 - 54	50 - 53	TARQ-204
Brookfield Viscosity	Cps	200 - 300 ²	200 - 300 ²	50 - 110 ⁴	TARQ-300
Thixotropic Index	--	3 min ³	3 min ³	2 min ⁵	TARQ-300
Gel Time ¹	Min	10 - 15	30 - 35	15 - 20	TARQ-400
Interval	Min	10 - 15	Report	13 - 21	TARQ-400
Exothermic Peak	°C	140 - 170	Report	155 - 185	TARQ-400
Stability at 120°C	Hours	1.5	1.5	1.5	TARQ-660
Appearance	--	Cloudy	Cloudy	Cloudy	VISUAL

¹ 1.25% Butanox M-50 @25°C; ² RVT, spindle # 3, 50 rpm @25°C, ³ RVT, spindle # 3, 5 rpm / 50 rpm @25°C; ⁴ LVDV-E, spindle # 2, 60 rpm @25°C, ⁵ LVDV-E, spindle # 2, 6 rpm / 60 rpm @25°C

NOTE: Tests results compared with the reported in certificate can be affected due to: batch age, temperature, moisture, type and amount of catalyst, testing equipment and method.

RECOMMENDATIONS

Physical properties are shown for fiberglass laminate: These are typical values and are provided for reference only.

Property	Units	PPT-5536	PPT-5539	PPT-5540	Test Method
Tensile Strength	Psi	12,558	12,558	12,558	ASTM D-638
Tensile Modulus	Psi	1.845 x 10 ⁶	1.845 x 10 ⁶	1.845 x 10 ⁶	ASTM D-638
Elongation	%	0.30	0.30	0.30	ASTM D-638
Flexural Strength	Psi	16,974	16,974	16,974	ASTM D-790
Flexural Modulus	Psi	1.185 x 10 ⁶	1.185 x 10 ⁶	1.185 x 10 ⁶	ASTM D-790
HDT @ 1.82 MPa	°C	70	70	70	ASTM D-648

- 1.- Laminate construction: 30% fiberglass to resin ratio.
- 2.- Laminate cured overnight at room temperatura and post-cured at 65°C for 5 hours.
- 3.- HDT is evaluated at neat resin casting.

RECOMMENDATIONS

- 1.- The catalyst level should not exceed 2.8% or fall below 1% for proper cure.
- 2.- These products should not be used when temperature conditions are below 16°C, as curing and handling may be adversely affected.
- 3.- Before use:
 - Mix once a day for 10 minutes, starting from the edges towards the center of the drum with the least possible turbulence.
 - Avoid air assistance, this is not effective and may cause water or oil contamination.
 - Avoid over-mixing, due to potential filler separation and increased tendencies to sag.
- 4.- Do not add any material different to the catalyst recommended for these products.
- 5.- Do not mix organic peroxides with metallic soaps, amines or any type of accelerators or promoters, because it can result on violent decomposition with fire or explosion.
- 6.- Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

STORAGE

Uncatalyzed PPT-5536, PPT-5539, and PPT-5540 resins, have a usage life of three months from invoice date, when stored at 25°C or below, in a closed, factory sealed opaque containers, and out of direct sunlight, heat sources or moisture. For every 7°C increase in storage temperature, the shelf life is reduced by one half.

SAFETY AND HANDLING

Detailed information for safe handling of PPT-5536, PPT-5539, and PPT-5540 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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