

## PPT-5536 / PPT-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.		45 max.	TARQ – 100
Non-volatile content	%	52-54		50-53	TARQ – 204
Brookfield viscosity	Cps.	200-300 <sup>2</sup>		50-110 <sup>4</sup>	TARQ – 300
Thixotropic Index	-----	3 min. <sup>3</sup>		2 min. <sup>5</sup>	TARQ – 300
Gel time <sup>1</sup>	Min.	10-15	30-35	15-20	TARQ – 400
Interval	Min.	10-13	Report	13-21	TARQ – 400
Exothermic Peak	°C	140-170	Report	155-185	TARQ – 400
Stability at 120°C	Hours	1.5			TARQ – 660
Appearance	-----	Cloudy			Visual

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

## PHYSICAL PROPERTIES

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		ASTM D-638
Tensile Modulus	Psi		1.845 x 10 <sup>6</sup>		ASTM D-638
Elongation	%		0.30		ASTM D-638
Flexural Strength	Psi		16, 974		ASTM D-790
Flexural Modulus	Psi		1.185 x 10 <sup>6</sup>		ASTM D-790
HDT @ 1.82 MPa	°C		70		ASTM D-648

1.- Laminate construction: 30% fiberglass to resin ratio.

2.- Laminate cured overnight at room temperature 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.



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## **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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