

## PPT-585 / PPT-607

### DESCRIPTION

The PPT-585 and PPT-607 are pre-promoted, thixotropic, unsaturated polyester resins.

### FEATURES AND BENEFITS

- Excellent wet out properties
- Fast cycle of curing
- Without tack.
- Non-draining

### APPLICATIONS

- GP laminating, FRP parts, Hand lay-up, Spray-up.

### TYPICAL LIQUID PROPERTIES

Property	Units	PPT-585	PPT-607	Method
Brookfield Viscosity <sup>3</sup>	Cps	300 - 450	300 - 450	TARQ-300
Thixotropic Index <sup>3</sup>	--	1.5 min	2 min	TARQ-300
Non-volatile content	%	57 - 64	57 - 62	TARQ-204
Acid Number (Solution)	Mg KOH/g sample	35 max	30 max	TARQ-100
Gel Time	Minutes	10 - 15 <sup>1</sup>	15 - 19 <sup>1</sup>	TARQ-400
Cure Time	Minutes	18 - 26	25 - 37	TARQ-400
Peak Exotherm	°C	160 max	160 max	TARQ-400
Stability at 120°C	Hours	1.5 min	1.5 min	TARQ-660
Appearance	--	Cloudy	Cloudy	VISUAL

<sup>1</sup> 1% Butanox M-50 @ 25°C; <sup>2</sup> RVT, spindle # 3, 50 rpm @25°C; <sup>3</sup> RVT, spindle # 3, 5 rpm / 50 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	Value	Method
Tensile Strength	Psi	11,000	ASTM D-638
Tensile Modulus	Psi	1.4 x 10 <sup>6</sup>	ASTM D-638
Elongation	%	0.5	ASTM D-638
Flexural Strength	Psi	18,000	ASTM D-790
Flexural Modulus	Psi	1.2 x 10 <sup>6</sup>	ASTM D-790
HDT @1.82 MPa	°C	65	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-. This product 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 this product.

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-585 and PPT-607 resins, have a usage life of three months from invoice date, when stored at 25°C or below, in a closed, opaque, factory sealed 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-585 and PPT-607 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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