

## PPT-585 / PPT-607 / PPT-5535

### DESCRIPTION

The PPT-585, PPT-607 and PPT-5535 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 FEATURES AND BENEFITS

Property	Units	PPT-585	PPT-607	PPT-5535	Test method
Brookfield Viscosity <sup>2</sup>	cps	300 – 450		380 – 480	TARQ-300
Thixotropic Index <sup>3</sup>	-----	1.5 min	2 min	1.5 min	TARQ-300
Non-volatile content	%	57 – 64	57 – 62	57 – 64	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>	15 – 19 <sup>4</sup>	TARQ-400
Cure Time	Minutes	18 – 26	25 – 37	25 – 37	TARQ-400
Peak Exotherm	°C	160 max.			TARQ-400
Stability at 120°C	Hours	1.5 min			TARQ-660
Appearance	-----	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; <sup>4</sup> 1.25% Butanox M-50 @ 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	Value	Test method
Tensile Strength	Psi	11,000	ASTM D-638
Tensile Modulus	Psi	$1.4 \times 10^6$	ASTM D-638
Elongation	%	0.5	ASTM D-638
Flexural Strength	Psi	18,000	ASTM D-790
Flexural Modulus	Psi	$1.2 \times 10^6$	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

- The catalyst level should not exceed 2.8% or fall below 1% for proper cure.
- This product should not be used when temperature conditions are below 16°C, as curing and handling may be adversely affected.
- 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.
- Do not add any material different to the catalyst recommended for this product.
- 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.
- Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

## STORAGE

Uncatalyzed PPT-585, PPT-607 and PPT-5535 resin, 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, PPT-607 and PPT-5535 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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