

## PPT-201-10 / PPT-201-15 / PPT-201-20

### DESCRIPTION

The PPT-201-10, PPT-201-15 and PPT-201-20 are pre-promoted, thixotropic, hybrid, unsaturated polyester resins.

### FEATURES AND BENEFITS

- Good wet out properties.
- Non-draining.
- Good handling characteristics.

### APPLICATIONS

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

### TYPICAL LIQUID PROPERTIES

Property	Units	PPT-201-10	PPT-201-15	PPT-201-20	Test Method
Acid number (Solution)	Mg KOH/g sample	30 max.			TARQ – 100
Non-volatile content	%	Report	55-60		TARQ – 204
Brookfield viscosity <sup>2</sup>	Cps.	300-450			TARQ – 300
Thixotropic Index <sup>3</sup>	-----	2 min.			TARQ – 300
Gel time <sup>1</sup>	Min.	10-15	15-20	20-25	TARQ – 400
Cure time	Min.	Report	22-32	27-37	TARQ – 400
Exothermic Peak	°C	Report	160-185		TARQ – 400
Stability at 120°C	Hours	1.5			TARQ – 660
Appearance	-----	Cloudy			Visual

<sup>1</sup> 1% 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

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	Test Method
Tensile Strength	Psi	18,332	ASTM D-638
Tensile Modulus	Psi	1.500 x 10 <sup>6</sup>	ASTM D-638
Elongation	%	0.36	ASTM D-638
Flexural Strength	Psi	33,652	ASTM D-790
Flexural Modulus	Psi	1.300 x 10 <sup>6</sup>	ASTM D-790
HDT @ 1.82 MPa	°C	81	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-201-10, PPT-201-15 and PPT-201-20 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-201-10, PPT-201-15 and PPT-201-20 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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