

## PPT- 5857

### DESCRIPTION

The PPT-5857 is a pre-promoted, thixotropic, Orthophthalic, unsaturated polyester resin.

### FEATURES AND BENEFITS

- Good wet out properties
- Moderated exotherm
- Non-draining

### APPLICATIONS

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

Property	Units	Min.	Max.	Test method
Brookfield Viscosity <sup>2</sup>	cps	300	450	TARQ-300
Thixotropic Index <sup>3</sup>	-----	2 min	-----	TARQ-300
Non-volatile content	%	55	58	TARQ-204
Acid Number (Solution)	mg KOH / g sample	-----	35 máx.	TARQ-100
Gel Time <sup>1</sup>	Minutes	10	15	TARQ-400
Cure Time	Minutes	22	30	TARQ-400
Peak Exotherm	°C	-----	160 máx	TARQ-400
Stability at 120°C	Hours	1.5 min	-----	TARQ-660
Color	-----	STD		TARQ-604
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

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	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

- 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 in a violent decomposition with fire or explosion.
- Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

## STORAGE

Uncatalyzed PPT-5857 resin, has a usage life of three months from invoice date, when stored at 25°C or below, in a closed, opaque, factory sealed container, 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 on the safe handling of the PPT-5857 can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

## **DISCLAIMER AND LIMITATION OF LIABILITY**

To the best of our knowledge, the information contained herein is accurate. The products sold hereunder shall meet Seller's applicable specifications at time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by warranty (together with all identifying details, including the product code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product or prior to the expiration of the shipment's quality life, whichever comes first. **THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by the Seller. **NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.** The sole purpose of this exclusive remedy shall be provided Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price. Final determination of the suitability of the material for use contemplated, the manner of use and suggested use infringing any patents is the sole responsibility of the Buyer.