

## PTM-8587 / PTM-8588H

### DESCRIPTION

The PTM-8587 and PTM-8588H are pre-promoted, non-thixotropic, isophthalic polyester resin.

### FEATURES AND BENEFITS

- Good wet out properties.
- Fast cycle of curing.
- Good mechanical properties
- Low viscosity.

### APPLICATIONS

- Light RTM process.

Property	Units	PTM-8587	PTM-8588H	Test method
Acid number (Solution)	mg KOH / g sample	35 max.		TARQ-100
Non-volatile content	%	57-62		TARQ-204
Brookfield viscosity <sup>2</sup>	Cps	70 - 100		TARQ-300
Gel Time	Minutes	20-25 <sup>1</sup>	25-30 <sup>3</sup>	TARQ-400
Cure Time	Minutes	45 max.	Report	TARQ-400
Exothermic Peak	°C	150-200	Report	TARQ-400
Appearance	-----	Opalescent		Visual
Stability at 120°C	Hours	1.5 min.		TARQ-660

<sup>1</sup>1.25% Butanox M-50@ 25°C; <sup>2</sup> LVDV-E, spindle #2, 60 rpm @25°C; <sup>3</sup>1.25% Butanox M-50@ 30°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 neat resin casting. These are typical values and are provided for reference only.

Property	Units	Value	Test method
Tensile Strength	Psi	7,041	ASTM D-638
Tensile Modulus	Psi	0.602 x 10 <sup>6</sup>	ASTM D-638
Elongation	%	1.00	ASTM D-638
Flexural Strength	Psi	11,590	ASTM D-790
Flexural Modulus	Psi	0.472 x 10 <sup>6</sup>	ASTM D-790
HDT	°C	77	ASTM D-648

Cured overnight at room temperature and post-cured at 65°C for 5 hours.

## 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. Do not add any material different to the catalyst recommended for these products.
4. 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.
5. Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

## STORAGE

Uncatalyzed PTM-8587 and PTM-8588H 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 PTM-8587 and PTM-8588H resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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