

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.

APLICACIONES

- Light RTM process.

TYPICAL LIQUID PROPERTIES

| Property | Units | PTM-8587 | PTM-8588H | Method |
|-----------------------------------|-----------------|------------------------|----------------------|----------|
| Acid Number (solution) | Mg KOH/g sample | 35 máx. | 35 máx. | TARQ-100 |
| Non-Volatile, Content | % | 57 - 62 | 57 - 62 | TARQ-204 |
| Brookfield Viscosity ² | Cps | 70 - 100 | 70 - 100 | TARQ-300 |
| Gel Time | Minutes | 20 - 25 ¹ | 25 - 30 ³ | TARQ-400 |
| Cure Time | Minutes | 45 máx. ¹ | Report ³ | TARQ-400 |
| Exothermic Peak | °C | 150 - 200 ¹ | Report ³ | TARQ-400 |
| Appearance | -- | Opalescent | Opalescent | VISUAL |
| Stability at 120°C | Hours | 1.5 min. | 1.5 min. | TARQ-660 |

¹1.25% Butanox M-50 @ 25°C; ²LVDV-E, spindle #2, 60 rpm @25°C; ³1.25% 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

1-. 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 ⁶ | ASTM D-638 |
| Elongation | % | 1.00 | ASTM D-638 |
| Flexural Strength | Psi | 11,590 | ASTM D-790 |
| Flexural Modulus | Psi | 0.472 x 10 ⁵ | 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.

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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