

PPT-4001

DESCRIPTION

The PPT-4001 is a pre-promoted, thixotropic, hybrid, unsaturated polyester resins.

FEATURES AND BENEFITS

- Good wet out properties.
- Fast cycle of curing.
- Non-draining.
- Without tack.

APPLICATIONS

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

TYPICAL LIQUID PROPERTIES

Property	Units	Min.	Max.	Test Method
Acid number (Solution)	Mg KOH/g sample	-----	30 max.	TARQ – 100
Non-volatile content	%	Report		TARQ – 204
Brookfield viscosity	Cps.	150	250	TARQ – 300
Thixotropic Index	-----	2.5	-----	TARQ – 300
Gel time ¹	Min.	30	35	TARQ – 400
Cure time	Min.	40	53	TARQ – 400
Exothermic Peak	°C	Report		TARQ – 400
Stability at 120°C	Hours	1.5	-----	TARQ – 660
Appearance	-----	Cloudy		Visual

¹ 1.5% Butanox M-50a @25°C; ² LVDV-E, spindle # 2, 60 rpm @25°C, ³ LVDV-E, spindle # 2, 6 rpm / 60 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	Valor	Test Method
Tensile Strength	Psi	12, 893	ASTM D-638
Tensile Modulus	Psi	1.718 x 10 ⁶	ASTM D-638
Flexural Strength	Psi	22, 657	ASTM D-790
Flexural Modulus	Psi	1.129 x 10 ⁶	ASTM D-790
HDT @ 1.82 MPa	°C	77	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.- This product 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 this product.
- 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-4001 resin, has 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 PPT-4001 resin, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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