

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.

TYPICAL LIQUID PROPERTIES

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

¹ 1% Butanox M-50 @ 25°C; ² RVT, spindle # 3, 50 rpm @25°C; ³ 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	Method
Tensile Strength	Psi	11,000	ASTM D-638
Tensile Modulus	Psi	1.4 x 10 ⁶	ASTM D-638
Elongation	%	0.5	ASTM D-638
Flexural Strength	Psi	18,000	ASTM D-790
Flexural Modulus	Psi	1.2 x 10 ⁶	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

- 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 in a violent decomposition with fire or explosion.

6-. 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.

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