

PIP-6000

DESCRIPTION

The PIP-6000 is a pre-promoted, thixotropic, isophthalic polyester resin.

FEATURES AND BENEFITS

- Good wet out properties.
- Provide good corrosion resistance.
- Good mechanical properties.
- FDA approved ingredients by 21 CFR 175.300.

APPLICATIONS

- Hand Lay Up or Spray Up Proces.

TYPICAL LIQUID PROPERTIES

Property	Units	Min	Max	Method
Brookfield Viscosity ²	Cps	550	650	TARQ-300
Thixotropic Index ³	--	3	--	TARQ-300
Non-Volatile Content	%	50	52	TARQ-204
Acid Number (Solution)	Mg KOH/g sample	--	25	TARQ-100
Gel Time ¹	Minutes	11	15	TARQ-400
Cure Time ¹	Minutes	15	25	TARQ-400
Peak Exotherm ¹	°C	--	215	TARQ-400
Stability at 120°C	Hours	1	--	TARQ-660
Density	gr/cc	1.060	1.090	TARQ-700
Appearance	--	Cloudy	Cloudy	N/A

¹1.25% Butanox M-50 @25°C; ² RVF, spindle #2, 20 rpm @25°C; ³ RVF, spindle #2, 2 rpm / 20 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

1-. Physical properties are shown for fiberglass laminated. These are typical values and are provided for reference only.

Property	Units	Values	Method
Tensile Strength	Psi	17,543	ASTM D-638
Tensile Modulus	Psi	2,560 x 10 ⁶	ASTM D-638
Elongation	%	0.37	ASTM D-638
Flexural Strength	Psi	29,800	ASTM D-790
Flexural Modulus	Psi	01.280 x 10 ⁶	ASTM D-790
HDT @1.82 MPa	°C	88	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.

3-. Do not add any material different to the catalyst recommended for this product.

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 PIP-6000 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.

STAFETY AND HANDLING

Detailed information on the safe handling of the PIP-6000 can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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