

## PHT-9322

### DESCRIPTION

The PHT-9322 is an unpromoted, high viscosity, isophthalic unsaturated polyester resin.

### FEATURES AND BENEFITS

- Good wet out properties.
- Fast cure rate.

### APPLICATIONS

- Pultrusion process.

### TYPICAL LIQUID PROPERTIES

Property	Units	Min	Max	Method
Acid Number (solution)	Mg KOH/g sample	12	23	TARQ-100
Non-Volatile, Content	%	68	72	TARQ-200
Brookfield Viscosity <sup>2</sup>	Cps	2200	2600	TARQ-300
Gel Time <sup>1</sup>	Minutes	2	5	TARQ-800
Cure Time <sup>1</sup>	Minutes	1	3	TARQ-800
Exothermic Peak <sup>1</sup>	°C	218	232	TARQ-800
Appearance	--	0	5	TARQ-600
Stability at 120°C	--	Clear	Clear	TARQ-600
APHA Color	Hours	1	--	TARQ-660

<sup>1</sup>2% BPO (PASTE 50%) @82°C; <sup>2</sup>LVDV-E, spindle #3, 30 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	14,469	ASTM D-638
Tensile Modulus	Psi	1.59 x 10 <sup>6</sup>	ASTM D-638
Elongation	%	1.60	ASTM D-638
Flexural Strength	Psi	21,539	ASTM D-790
Flexural Modulus	Psi	0.880 x 10 <sup>6</sup>	ASTM D-790
HDT	°C	87	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-. 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 PHT-9322 resin, have 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.

## STORAGE

Detailed information on the safe handling of the PHT-9322 can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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