

PIPD-51725A / PIPD-51825

DESCRIPTION

The PIPD-51725A and PIPD-51825 are pre-promoted, thixotropic, isophthalic polyester resin.

FEATURES AND BENEFITS

- Good wet out properties.
- Fast cycle of curing
- Good mechanical properties.
- These products meet UL 94 (HB) and FMVSS-302 flammability standards.

APLICACIONES

- Hand Lay Up or Spray Up Process.

TYPICAL LIQUID PROPERTIES

Property	Units	PIPD-51725A	PIPD-51825	Method
Acid Number (solution)	Mg KOH/g sample	35 máx.	35 máx.	TARQ-100
Non-Volatile, Content	%	53 – 58	53 – 58	TARQ-204
Brookfield Viscosity ²	Cps	200 – 300	200 – 300	TARQ-300
Thixotropic Index ³	--	2 min	2 min	TARQ-300
Gel Time ¹	Minutes	10 – 14	6 – 10	TARQ-400
Interval	Minutes	Report	Report	TARQ-400
Exothermic Peak	°C	Report	Report	TARQ-400
Stability	Hours	2 min	2 min	TARQ-660

¹1.25% Butanox M-50 @ 25°C; ² LVDV-E, spindle #3, 60 rpm @25°C; ³ LVDV-E, spindle #3, 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

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

Property	Units	Value	Test Method
Tensile Strength	Psi	15,000	ASTM D-638
Tensile Modules	Psi	1.4 x 10 ⁵	ASTM D-638
Elongation	%	1.00	ASTM D-638
Flexural Strength	Psi	26,000	ASTM D-790
Flexural Modulus	Psi	1.1 x 10 ⁶	ASTM D-790
HDT	°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-. 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 PIPD-51725A and PIPD-51825 resins, 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.



SAFETY AND HANDLING

Detailed information on the safe handling of the PIPD-51725A and PIPD-51825 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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