

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.

APPLICATIONS

- Hand Lay Up or Spray Up Process.

TYPICAL LIQUID PROPERTIES

Property	Units	PIPD-51725A	PIPD-51825	Test Method
Acid Number (Solution)	Mg KOH/g sample	35 max.		TARQ-100
Non – volatile content	%	53 – 58		TARQ-204
Brookfield viscosity ²	Cps	200 - 300		TARQ-300
Thixotropic index ³	—	2 min		TARQ-300
Gel time ¹	Minutes	10-14	6-10	TARQ-400
Interval	Minutes	Report		TARQ-400
Exothermic Peak	°C	Report		TARQ-400
Appearance	—	Opalescent		Visual
Stability	Hours	2 min		TARQ-660

¹ 1.25% 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

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 Modulus	Psi	1.4×10^5	ASTM D-638
Elongation	%	1.00	ASTM D-638
Flexural Strength	Psi	26,000	ASTM D-790
Flexural Modulus	Psi	1.1×10^6	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.



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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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