

PUG-4700 / PUG-4701

DESCRIPTION

The PUG-4700 and PUG-4701 are un-promoted, high viscosity, unsaturated polyester resins.

FEATURES AND BENEFITS

- Good wet out/roll out properties
- Fast cycle of curing.
- Good Mechanical properties.

APPLICATIONS

- GP laminating, FRP parts, Hand lay-up, Spray-up.
- To make gel coats that are UV cured.

TYPICAL LIQUID PROPERTIES

Property	Units	PUG-4700	PUG-4701	Test Method
Acid number (Solution)	Mg KOH/g sample	20 max.		TARQ – 100
Non-volatile content	%	72-75	73-78	TARQ – 204
Gardner viscosity	—	W-Z	—	TARQ – 310
Brookfield viscosity ³	cps	—	2500-3000	TARQ – 300
Gel time	Min.	8-12 ¹	3-6 ²	TARQ – 400 / TARQ-801
Cure time	Min.	25-32	1-3	TARQ – 400 / TARQ-801
Exothermic Peak	°C	130-160	150-185	TARQ – 400 / TARQ-801
Stability at 120°C	Hours	1.5		TARQ – 660
Gardner color	—	2 max.		TARQ – 600
Appearance	—	Clear		Visual

¹ Dilute to 60% solids, 0.25% Co (12%), 1% Butanox M-50 catalyst @25°C (TARQ-400);

² 2% BPO (50% paste) @25°C (TARQ-801); ³LVDV-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.

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 PUG-4700 and PUG-4701 resins, have a usage life of three months from invoice date, when stored at 25°C or below, in a closed, factory sealed opaque containers, and 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 for safe handling of PUG-4700 and PUG-4701 resins, can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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