

PAB-4302

DESCRIPTION:

Unpromoted orthophthalic unsaturated polyester, of mid viscosity, low exhoterm and very low color. PAB-4302 resin is designed for the manufacture of parts which color is important.

USES:

General purposes; formulated specially for buttons manufacture.

TYPICAL LIQUID PROPERTIES:

Next values are for a reference guide only. Certain batches will not conform exactly to these numbers due to: storage conditions, temperature changes, batch age, test equipment and procedures; these variables may affect deeply the evaluation results. Products with values outside of these numbers can perform acceptably. Final suitability of product is in the end use performance.

Test	Minimum Value	Maximun Value	Test Method
Gel Time (minutes) 1	3	5	TARQ-400
Cure Time (minutes) 1	Report	Report	TARQ-400
Peak Exotherm (°C) 1	140	160	TARQ-400
Brookfield Viscosity (cps) ²	1,250	1,450	TARQ-300
Non-Volatile Content (%)	69	71	TARQ-200
Acid Number (solids)	18	35	TARQ-110
APHA, color		15	TARQ-610
Appearance	Clear	Clear	Visual
Stability @ 120°C (hours)	1		TARQ-660

^{10.5%} RQ-200, 1.7% Butanox M-50 @ 25°C

CURE:

It is recommended that gel time be tested in the customer's plant, due to age, temperature, humidity and catalyst type / amount, will produce varied gel times.

The catalyst level should not exceed 2.5% or fall below 1% for proper cure.

This product will have use difficulty when temperature fall bellow 16°C, due to curing may be adversely affected. All the gel and cure times are related to Butanox M-50 as catalyst. If any doubt, please contact our Technical Service Department.

² LVDV-E, spindle # 2, 12 rpm @ 25°C



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PHYSICAL PROPERTIES:

Polyester resin do not develop ultimate physicals, i.e. "cure" right away. Time and / or heat are needed. Heat may come from internal exotherm or external sources. The amount of catalyst will affect the cure. With time and / or heat, a "moderate cure" will develop into "ultimate physicals".

When the part reaches ultimate cure depends upon time, temperature and satisfactory catalyzation. Too

much or too little catalyst can result in permanent under-cure, wich cannot be overcome.

Practically speaking, serviceable cure time will range from overnight to a week, and occasionally longer due to circumstances. Small and thickness laminates, properly catalyzed without exotherm or external heat can be delay months or years to get their last physical properties. Sufficient external heat can reduce the cure time to less than one day.

CAUTIONS:

Do not use air to mix, because it is not effective and moreover can produce contamination with water and oil. Do not add any material than the recommended fillers and catalyst for this product. If any doubt, please contact our Technical Service Department.

Warning: Avoid direct mixing of organic peroxide with metalic soaps, amines or any type of accelerator or promotor, because it can result on violent decomposition with fire or explosion.

STORAGE LIMITATIONS:

Uncatalyzed unsaturated polyester have a usage life of three months from date of manufacture when stored at 25°C or below, in a closed, factory-sealed,

opaque container and out of direct sunlight, heat sources or moisture. By each 7°C increment on temperature, usage life decrease to half.

SHIPPING:

Metallic, closed and sealed drums of 230 Kg or tank-wagons.

Last Revision: March/18/2015

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shall be provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is wiling and able to replace the defective products or refund the purchase price. Final determination of the suitability of the material for use contemplated, the manner of use and suggested use infringed any patents is the sole responsibility of the Buyer.