

PPT-4015 / PPT-4020 / PPT-4032

DESCRIPTION

PPT-4015, PPT-4020 and PPT-4032 are general purposes, pre-promoted, thixotropic, unsaturated polyester resins.

FEATURES AND BENEFITS

- Good wetting to fiberglass.
- Tack-free cure.
- Good mechanical properties.

APPLICATIONS

- Manufacture of fiberglass reinforced parts by hand lay up or spray up.

TYPICAL LIQUID PROPERTIES

Property	Units	PPT-4015	PPT-4020	PPT-4032	Method
Brookfield Viscosity ³	Cps	300 – 450	300 – 450	380 – 480	TARQ-300
Thixotropic Index ³	--	2 min	2 min	2 min	TARQ-300
Non-volatile content	%	55 – 58	Report	55 – 58	TARQ-204
Acid Number (Solution)	Mg KOH/g sample	30 max	30 max	30 max	TARQ-100
Gel Time ¹	Minutes	15 – 19	20 – 25	32 – 37	TARQ-400
Cure Time	Minutes	27 – 31	32 – 37	44 – 49	TARQ-400
Exothermic Peak	°C	140 – 160	140 – 160	140 – 160	TARQ-400
Stability at 120°C	Hours	1.5 min	1.5 min	1.5 min	TARQ-660
Appearance	S/U	Cloudy	Cloudy	Cloudy	VISUAL

¹ 1% Butanox M-50 @ 25°C; ² RVT, spindle # 3, 50 rpm @25°C; ³ RVT, spindle # 3, 5 rpm / 50 rpm @25°C

NOTE: The material should be tested before using it accordingly with the analytical methods indicated above. Tests results compared with the indicated can be affected due to: batch age, temperature, moisture, type and amount of catalyst, testing equipment and method.

PHISICAL PROPERTIES

Physical properties are shown for fiberglass laminate: These are typical values and are provided for reference only.

Properties	Units	Value	Method
Tansile Strenght	Psi	15,000	ASTM D-638
Tensile Modulus	Psi	1.440 x 10 ⁶	ASTM D-638
Elongation	%	1.80	ASTM D-638
Flexural Strength	Psi	25,000	ASTM D-790
Flexural Modulus	Psi	1.130 x 10 ⁶	ASTM D-790
HDT @1.82 MPa	°C	63	ASTM D-648
Barcol Hardness	N/A	45	ASTM D-2583

Laminated with 70% resin + 30% fiberglass; curing 12 hours at RT + 5 hours at 65°C; HDT is in casting.

RECOMMENDATIONS

1-. For proper cure, catalyst level should be between 1 to 2.8%.

2-. Room temperature must be 16°C or higher.

3-. Before use:

- Mix once a day for 10 minutes, starting from the edges towards the center of the drum with the least possible turbulence.
- Avoid air assistance, this is not effective and may cause water or oil contamination.
- Avoid over-mixing, due to potential filler separation and increased tendencies to sag.

4-. Do not add any material different to the catalyst recommended for this product. 5-. 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.

6-. Any additional questions, please contact your Reacciones Químicas SA de CV sales representative.

STORAGE

Uncatalyzed PPT-4015, PPT-4020 and PPT-4032 resins, have a guaranteed 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.

SAFETY AND HANDLING

Detailed information for safe handling of PPT-4015, PPT-4020 and PPT-4032 can be found on its SDS. For more information, please contact your Reacciones Químicas SA de CV sales representative.

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