

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 FEATURES AND BENEFITS

Properties	Units	PPT-4015	PPT-4020	PPT-4032	Method
Brookfield Viscosity ²	cps	300 - 450		380 - 480	TARQ-300
Thixotropic Index ³	S / U	2 min			TARQ-300
Non-volatile content	%	55 - 58	Report	55 - 58	TARQ-204
Acid Number (Solution)	mg KOH / g sample	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			TARQ-400
Stability at 120°C	Hours	1.5 min			TARQ-660
Appearance	S / U	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
Tensile Strength	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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