Technical Datasheet

AROPOL™ PTM 208 TB Low Styrene Emission Resin

AROPOL PTM 208 TB is a thixotropic, pre-accelerated, low styrene emission general purpose polyester resin,with a moderate geltime. This resin is formulated with recycled materials. AROPOL PTM 208 TB is Manufactured with 18 % recycled PET.

When applying AROPOL PTM 208 TB resin, styrene emission is reduced by up to 50% compared to standard resins. Emission is only 2-5% of polyester resin used compared to 5-10% of standard polyester resin.

Typical Liquid Resin Properties

Property at 23°C	Typical value	Unit	Method
Viscosity, Brookfield RV2, 10 rpm	1400	mPas	ISO 2555
Viscosity, Cone&Plate	210	mPas	ISO 2884
Non-Volatiles	57,5	%	ASTM D 1644
Gel Time, 1,5% MEKP-50	35	min	Hc-04a
Peak Exotherm Temperature	155	°C	Hc-04a

Typical Cured Resin Properties

Property[1]	Value	Unit	Method
Tensile Strength	60	MPa	ISO 527
Tensile Modulus	3200	MPa	ISO 527
Elongation at Break	2,5	%	ISO 527
Flexural Strength	110	MPa	ISO 178
Flexural Modulus	3100	MPa	ISO 178
Heat Deflection Temperature (HDT)	80	C	ISO 75/2 (A)

(1) Clear casting physical properties cured using 1,5% MEKP-50 catalyst. Post cured at 50°C for 24 hours. HDT sample post cured at 70°C for 24 hours.

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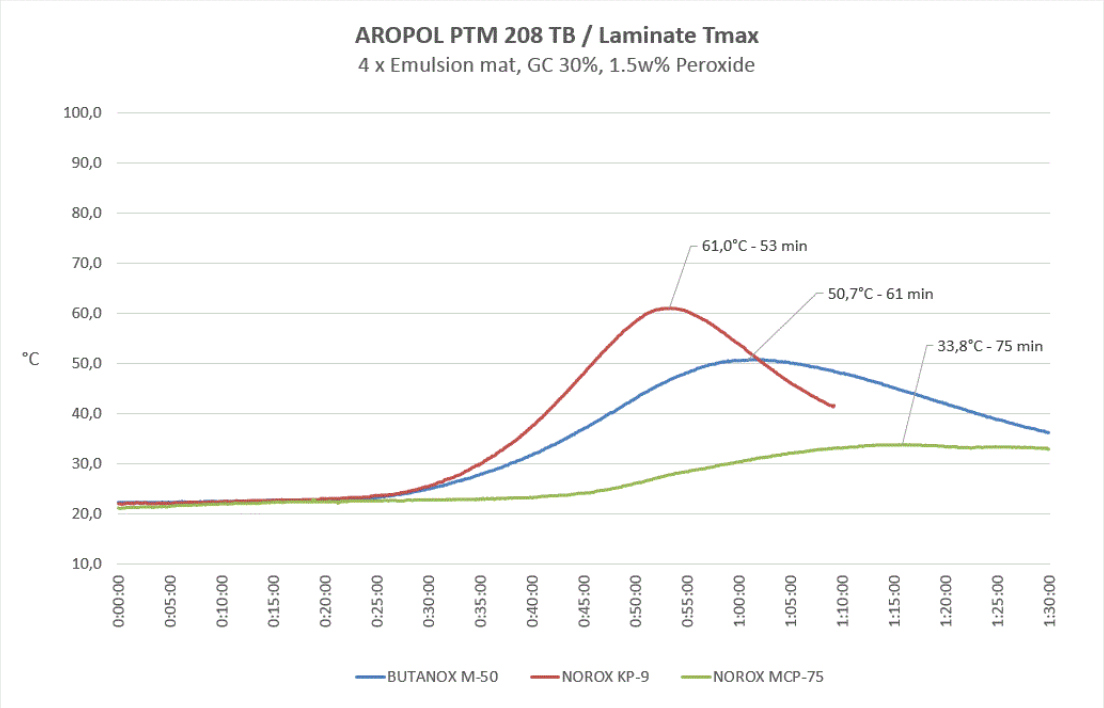
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Application and Use

AROPOL PTM 208 TB resin is suitable for spray-up, hand lay-up and filament winding methods for manufacturing numerous FRP products for the building, construction, marine and transportation markets.

Laminate Curing



Laminate exotherm with various peroxides.

Certificates and Approvals

The manufacturing, quality control and distribution of products, by ALTA Performance Materials, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001.
The recycled PET used to manufacture this resin is certified by Recyclass under its “Recycled Content Traceability” certification (certificate code: RC222-INE-04-25-IVC-JZ). The audit scheme is in alignment with EN 15343:2007 and the principles of controlled blending chain of custody model as defined in ISO 22095.

Please note that Recyclass certification is currently applicable to specific products with spe- cific recycled content shares, for more information please refer to the certificate.

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Handling and Storage

It is highly recommended that all material is stored at stable temperatures under 25°C preferably indoors, and away from direct sunlight. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AROPOL PTM 208 TB is six (6) months.

Notice

All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which ALTA Performance Materials assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.

Since the user's product formulations, specific use applications and conditions of use are beyond the control of ALTA Performance Materials, ALTA Performance Materials makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

ALTA Performance Materials requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

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