

TECHNICAL DATA SHEET

R404PA

Ortho/Teraphthalic Laminating Resin

Revised: 28/03/2025

DESCRIPTION

R404PA is a high quality hybrid orthophthalic/teraphthalic based, pre-accelerated, unsaturated polyester resin suitable for the manufacture of laminates in a wide range of applications. It has higher impact resistance than general Orthophthalic resins

Characteristics & Advantages:

- Suitable for Hand-Lay-Up and Spray-Up Applications
- Excellent wet-out
- Tough flexible resin
- Very stable with low shrink
- Low water adsorption

TYPICAL LIQUID RESIN PROPERTIES

Viscosity @ 25°C	350 – 500 cps
Thixotropic index	1.4 – 2.1
Solid content	58.5 – 65.5
Curing Characteristics	
Mass of resin	100g
Accelerator Quantity	Pre-accelerated
Catalyst Type	MEKP (9% Active O ₂)
Catalyst quantity	2 g per 100g neat resin
Gel time @ 25°C @ 2% Akperox A50	10 - 15 minutes

TYPICAL PHYSICAL PROPERTIES:

Typical properties of R404PA	
Prepared, post-cured in accordance with SABS 713-1974, as amended	
Temperature of deflection – under load (1.80MPa), °C	60 - 65
Barcol (GYZJ 934-1) hardness	35 - 45
Tensile strength, MPa	65
Tensile Modulus MPa	3800
Elongation @Break %	3-4

SUBSTANCE IDENTITY NUMBER

UN 1866

MARKING

UNSATURATED POLYESTER (UP)

SHELF LIFE

4 Months from production date when stored as indicated.

Packaging

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute any other warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages. Our standard conditions of contract will apply to all sales

R404PA is normally supplied in 225kg new steel drums with close top, as well as 25kg and smaller.

Other Version

R404PA can be supplied as a white version i.e. **R404P1**,

MATERIAL SAFETY, STORAGE and HANDLING:

The resin should be stored below 25°C, away from heat sources, direct sunlight and rain, in a closed opaque container.

- Polyester resin solutions contain volatile and flammable monomers such as styrene (Flash Point 32°C). They are subject to the Highly Flammable Liquids and Liquid Petroleum Gases Regulations 1972.
- All polyester resins should be handled and used in well ventilated, flame proof areas.
- It is preferable to wear gloves and goggles to guard against any skin / eye irritation arising from the presence of styrene.
- AVOID DIRECT MIXING OF ANY ORGANIC PEROXIDE (CATALYST) WITH METAL SOAPS, AMINE OR ANY OTHER POLYMERISATION
- ACCELERATOR OR PROMOTER, AS VIOLENT DECOMPOSITION WILL RESULT! Under no circumstance must accelerators be mixed with peroxide catalysts directly as the mixture can explode.

A Material Safety Data Sheet is available from your Atlin Chemicals representative. Make certain that you obtain a copy and that its contents are understood before work commences.

For any additional information, please contact Atlin Chemicals at one of our branches:

Johannesburg: 011 397 6740

Kwa-Zulu Natal: 031 705 2519

East London: 043 745 0211

Cape Town: 021 982 1092

Port Elizabeth: 041 453 0030

E-Mail: orders@atlin.co.za
reception-jhb@atlin.co.za

You could also contact us through our website at:
www.atlinchemicals.co.za

