

Palatal® P 65TV-959

General orthophthalic resin for hand lay-up and spray-up application

Palatal® P 65 TV-959 has excellent impregnation, low shrinkage properties.

Benefits

- Good mechanical property
- Excellent impregnation, easy processing
- Low shrinkage

Chemical/Physical Nature

Palatal® P 65 TV-959 is a pre-accelerated, thixotropic unsaturated polyester resin based on orthophthalic acid, dissolved in styrene.

The resin has a low viscosity and a high reactivity.

Palatal® P 65 TV-959 has good mechanical property and hydrolysis resistance.

Application

Palatal® P 65TV-959 is well suited for hand lay-up and spray process. It rapidly impregnates the reinforcing materials during lay-up and does not run off in vertical side. Palatal® P 65 TV-959 has good mechanical property and hydrolysis resistance. It suits marine ,sanitary ,leisure and cabin industry.

Product Specification

Property	Value	Unit	TM
Appearance	Hazy	-	TM 2265
Viscosity @23°C	180-220	mPa.s	TM 2013
Solids content, IR drying	56-62	%	TM 2033
Acid value	10-18	mgKOH/g	TM 2401
Gel time(25°Cto35 °C)	20-38	min	TM 2625

Remarks

TM2625: 2.0g Butanox® M50 added to 100 g resin

Liquid resin typical properties

Property	Value	Unit	TM
Flash point	33	°C	TM 2800
Stability, no initiator, dark, 25 °C	3	Month	-

Unfilled castings typical properties

Property	Value	Unit	TM
Tensile strength	65	MPa	ISO 527-2
Tensile modulus	3.2	GPa	ISO 527-2
Tensile elongation	5.0	%	ISO 527-2
Flexural strength	120	MPa	ISO 178
Flexural modulus	3.2	GPa	ISO 178
HDT	60	°C	ISO 75-2
Unnotched impact strength	12	kJ/m ²	ISO 179

Remarks

Curing conditions: Cured with 2.0g Butanox® M50 added to 100 g resin. After 24h at RT followed by post curing for 24 h at 80 °C.

Storage Guidelines

The resin should be stored in a dark and dry place at temperatures between 5 °C and 30 °C. Shelf life is reduced when resin is stored at higher temperatures and the properties of the resin might change during storage. Store in dark and in 100% light tight containers only. Exposure to direct sunlight should be avoided.

Material Safety

A Material Safety Data Sheet of this product is available on request.

Test Methods

Test methods (TM) referred to in the table(s) are available on request.

Processing Guidelines

- A. Before use, the resin should be conditioned at a well-defined, application dependant temperature (usually 15°C minimum for a MEKP / Co cure).
- B. Palatal® P 65TV-959 contains Cobalt accelerator. For peroxide, MEKP is recommended. Be sure that the peroxide is in shelf life.
- C. Maintain shop temperatures between 18 °C and 32 °C and humidity between 40% and 90%. Consistent shop conditions contribute to consistent gel times and will help the fabricator make a high quality part.
- D. The final state of cure may further be optimized by post-curing at elevated temperatures (e.g. 80 °C) for several hours.

ISO 9001:2015 Certified

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About AOC

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AOC. Trusted Solutions

Brochures

You can find additional information through the Product Guide. For detailed information on the system solution, please consult our Marine Brochure. Both brochures are available from our Business Technical Supports Engineer and Account Manager.

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