

Palatal® P 6-01

Multi-purpose Orthophthalic resin for Tanks, Pipes and Artificial stone

Palatal® P 6-01 is a multi-purpose resin commonly used for the manufacturing of agricultural and industrial storage tanks (both liquids and solids), construction elements, industrial parts.

Benefits

- Easy processing
- Consistency track record
- High versatility

Major Applications

Palatal® P 6-01 is suitable for a wide range of applications. It is used both for unreinforced as well as for glass-fiber reinforced moldings.

Palatal® P 6-01 is particularly suitable for the production of pipes, profiles, tanks, vessels, boats and parts of automotive bodies.

Certifications and Approvals

Cured unreinforced Palatal® P 6-01 conforms to type 1140 according to DIN 16 946/2 and is classified in group 1B according to EN 13 121-1.

Product Specifications

Property	Value	Unit	TM
Appearance	Clear		TM 2265
Color Lico APHA	0 - 80	APHA	TM 2017
Solids content	64 - 67	%	TM 2033
Viscosity 23 °C, 100 s ⁻¹	900 - 1200	mPa.s	TM 2013
Gel time 25 until 35 °C	16 - 21	min	TM 2625
Peak time	20 - 26	min	TM 2625
Peak temperature	170 - 190	°C	TM 2625

Viscosity measurement: Physica, Z2 / 100 s⁻¹/ 23°C Reactivity: 0.5 g Cobalt Polymer accelerator (1%) + 1.0 g (AAP) Acetylacetone peroxide added to 100 g resin.

Liquid			
Property	Value	Unit	TM
Refractive index	1.5325	-	TM 2150
Flash point	33	°C	TM 2800
Stability (Solid, dark, 25 °C)	6	month	
Acid value	31	mg KOH/g	TM 2401
Color	Yellowish	-	

Solid Unfilled			
Property	Value	Unit	TM
Tensile strength	90	MPa	ISO 527-2
Tensile modulus	4.6	GPa	ISO 527-2
Elongation at break	2.8	%	ISO 527-2
Flexural strength	150	MPa	ISO 178
Flexural E-Modulus	4.6	GPa	ISO 178
Outer fiber strain	3.6	%	ISO 178
HDT	104	°C	ISO 75A
Impact strength	9	kJ/m ²	ISO 179
Tg	135	°C	DIN 53445

The mechanical characteristics are obtained curing the resin with 1ml (MEKP) Medium reactive Methyl Ethyl Ketone Peroxide and 0.2 ml Cobalt Polymer accelerator (1%) added to 100 g resins. Cured for 24 h at RT and post cured for 24 h at 80 °C.

Application Guidelines

Before use the resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP/ Cobalt cure). Palatal® P 6-01 normally does not exhibit tack-free cure. To ensure tack-free cure of surfaces exposed to air, suitable additives (e.g. paraffin solution) should be added.

The final state of cure may be optimized by post curing at elevated temperatures (e.g. 80 °C) for several hours.

The resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP/Cobalt cure).

Storage Guidelines

The resin should be stored indoors in a dry place at tempera tight and undamaged packaging.

The properties of the resin may change slightly during storage.

Material Safety

A Safety Data Sheet (SDS) of this product is available on request.

Test Methods

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

ISO 9001:2015 Certified

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2015 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

AOC. Trusted Solutions

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Contact us for more information

We will help you to choose the right resin solution.

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