

TP200TICOP

POLYESTER RESINS

PRODUCT DESCRIPTION

TP200TICOP is a thixotropic, pre-accelerated, medium reactive viscosity orthophthalic unsaturated polyester resin.

It has excellent mechanical properties.

TP200TICOP has excellent clear color and is offering rapid and efficient wet-out. It is suitable for use in hand and spray lay-up, general purpose, filament winding, pultrusion, cold press processes, marine applications.

BASIC RESIN PROPERTIES

Acid	<i>Orthophthalic</i>
Glycol	<i>Standard Glycol</i>
Cobalt	<i>Contains</i>
Reactivity	<i>Medium</i>

PROPERTIES OF LIQUID FORM

Test	Method	Standard value
Colour	-	blue-violet, hazy
Density	ISO 1695	1,09 - 1,11 gr/cm ³
Acid Value	ISO 2114	<24 mg KOH/gr
Viscosity Brookfield*	ISO 2555	500-600 cps
Thixotropy	-	>3,00
Geltime**	ISO 2535	15 - 25 min
Peak temperatures	ISO 2535	145 - 165°C
Monomer content	ISO 3251	%32 - %38
Shelf life	-	4 months

* measured at 25°C, 20rpm with spindle 2

** measured at 20°C with 1,5% MEKP (Butanox M50)

Air temperature and percentage of MEKP Catalyst are effecting the geltime and cure cycle. It is recommended to use more MEKP in winter season compared to the summer season.

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MECHANICAL PROPERTIES OF NON REINFORCED RESIN

Test	Method	Standard value
Tensile strength	ISO 527	70 MPa
Elongation at break	ISO 527	% 2,70
Tensile modulus	ISO 527	3500 MPa
Flexural strength	ISO 178	120 MPa
Flexural modulus	ISO 178	3600 MPa
Barcol hardness	ASTM D2583	45
HDT	ISO 75	70°C

* the cured resin has been post-cured before testing mechanical properties

STORAGE

To ensure maximum stability and maintain optimum product handling properties, products should be stored in closed containers, away from heat sources and sunlight. The product should be stored away from all sources of ignition. Stored product quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the product before use is recommended.



PACKAGING

Pail 18 kg
 Barrel 230 kg
 Multicontainer 1100 kg
 Tank container 25,000 kg