

## 1 CHARACTERISTICS

The **NORESTER® 920 TPAV** is an Orthophthalic laminating resin with low styrene emission. It is recommended for the production of laminates by hand-lay or spraying application.

- Pre-accelerated resin, cures at room temperature by addition of MEKP catalyst (Butanox M50 type).
- Thixotropic resin allowing production of laminates on vertical application.
- Colour change mechanism to indicate state of cure.
- Good wettability.
- Low styrene emission.

## 2 PROPERTIES OF THE LIQUID RESIN

Brookfield Viscosity (ISO 2555 - 20°C – sp3)	5 rpm: 1500 - 2000 cP 50 rpm: 500 - 600 cP
Density (ICON 012)	1.10 - 1.14 g/cm <sup>3</sup>
Gel time (ICON 002) (23°C – 2% MEKP M50 on 100 g)	16 - 20 minutes
Peak Exotherm time (20°C – 2% MEKP M50 on 100 g)	32 - 38 minutes
Peak Exotherm temperature (20°C – 2% MEKP M50 on 100 g)	125 - 135°C
Solid Content (ICON 003)	35-40 %

## 3 MECHANICAL PROPERTIES ON CAST RESIN

Flexural strength* (ISO 178)	71.4 MPa
Tensile strength* (ISO 527)	30.4 MPa
Elongation at break* (ISO 527)	1.5 %
Temperature of deflection under load* (HDT)* (ISO 75-3)	62°C
Barcol hardness* (ASTM 2583)	50

\*Test realized on pure resin with catalyst rate of 2% MEKP M50 and post cured 3 hours at 80°C.

## 4 RECOMMENDATIONS BEFORE USE

- Mix the product well before use.
- Never put less than 1% and more than 3% of peroxide MEKP M50.
- Before use, check that the temperature of the product and the room is between 18°C and 25°C.
- To obtain a homogeneous polymerisation, mix the catalyst well before use.
- Slightly sand the surface of the laminate if the time between two laminate layers is higher than 24 hours.

### **IMPORTANT**

*All the results are obtained according to trials in our laboratory. However, we will not be responsible for parts manufactured with the resin **NORESTER® 920 TPAV**, if the specified conditions of application are not respected.*

*It is imperative that the user also ensure that the product is appropriate for his application and process.*

*We hereby guarantee the conformity of our products for the above specifications. We cannot be responsible for any damage caused by misuse of this product or use of the product for an application not covered in the design.*

## **5 PACKAGING**

Available in kegs, drums or IBCs.

## **6 STORAGE CONDITIONS AND HANDLING**

Storage life: **NORESTER® 920 TPAV** resin is stable for 6 months from date of production. The product must be stored in its original closed packaging at a temperature between 15°C and 25°C, away from direct sunlight.

It is the responsibility of the customer to assure that the product is used in overall good conditions before the date limitation mentioned on the label.

This resin is subject to the Highly Flammable Liquids Regulations.

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