

1 CHARACTERISTICS

NORESTER® 948 is a hybrid resin ISO NPG / vinylester. It is specially formulated for the infusion application or injection application, RTM, RTM light.

- The resin has a low viscosity for a good flowing of the resin into the mould and a good wetting of the reinforcements.
- Resin cures at ambient temperature by addition of MEKP catalyst (Butanox M50 type).

2 PROPERTIES OF THE LIQUID RESIN

Aspect	Liquid
Brookfield viscosity (ISO 2555 - 23°C – sp2)	50 rpm : 140 - 180 cP
Specific gravity (ICON 012)	1,06 - 1,10 g/cm ³
Gel time (ICON 002) (23°C - 2% MEKP on 100 g)	16 - 20 minutes
Solid content (ICON 003)	53 - 57 %

3 MECHANICAL PROPERTIES OF THE CURED CAST RESIN

Flexural strength* (ISO 178)	141.7 MPa
Flexural modulus* (ISO 178)	3.390 GPa
Tensile strength* (ISO 527)	59.3 MPa
Elongation at break* (ISO 527)	4.85%
Temperature of deflection under load * (HDT) (ISO 75-3)	98.1°C
Barcol hardness * (ASTM 2583)	45

* Mechanical tests realized on cast resin with 2% MEKP. Post curing 24 hours at ambient temperature and 3 hours at 80°C.

4 RECOMMENDATIONS BEFORE USE

- Mix the product before use.
- For a homogeneous polymerisation, mix the peroxide well, never put under 1% or over 3%.
- Before use, check that the temperature of the mould, of the room and of the product is between 18°C and 25°C.
- Before use, mix well the catalyst to obtain a homogenous curing.

5 PACKAGING

Available in kegs of 25 kg or drums of 200 kg.

IMPORTANT

All of the results obtained according to trials in our laboratory. However, we don't be responsible of manufactured parts with the resin **NORESTER® 948**, if the application conditions specified are not respected.

It is imperative that the user must also ensure that his application and his process are appropriate for this product to be used. We hereby the conformity of our products with 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.

6 STORAGE CONDITIONS AND HANDLING

Storage life: **NORESTER® 948** resin is stable for 3 months from date of production. The product must be stored in 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 good conditions overall before the date limitation mentioned on the keg.

This resin is subject to the Highly Flammable Liquids Regulations.

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