

This sheet supersedes the one dated: 07.11.2014

Description: Cross linking mixture from mono- and polyfunctional methacrylate-monomers.

Physical data of liquid resin:

Appearance: colorless to light yellow and clear,
fluorescent on demand

Smell: Pleasant smell like ester

Flammable point: 102°C

Boiling point: 66°C at 1,33 mbar

Viscosity at 20°C: 10 mPas ± 1 mPas
29 ±1s Zahn Cup N° 1
24 ±1s Frikmar Becher N° 3

Density at 20°C: 0,927 ±0,003g/ml

**Vapour pressure at
20°C:** 0,1 mbar

Washability: very good

Solubility in water: 100 g/l

Storage conditions*: non-catalyzed: 12 months at max. 35°C
catalyzed: 1/2 year at max. 25°C (controlled)
Minimal temperature of storage: 0°C
reduction of catalyst possible
Recommendation: aerate regularly by opening the cork.
Modifications through metals, alkalis, peroxides and direct
sunlight

Gel time at 90°C: 3 - 7 minutes, recommended (catalyzed with 0.2 to 0.3%)
(* in original packaging; do not keep under inert gas)

Physical data of hardened resin:

Appearance: Clear plastic with or without some cracks. Fluorescent
execution to retrieve the plastic in the porosity of the
castings using an UV-lamp.

Density: 1,1 g/ml

Temperature range: from -50°C to 250°C
Permanent temperature load max. 200°C
Short temperature load max. 250°C temperature
resistance depends on size of porosity

Chemical resistance: IM4500 has very good chemical resistance to polar and
non polar liquids

Pressure resistance: acc. to ambient metal

Heat conductivity: 0,18°C W/m K (*)

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Surface resistance: $10^{15} \Omega$ DIN 53482 (*)
**Specific volume
resistance:** $>10^{15} \Omega$ cm DIN 53482 (*)

Dielectric number 3,5 \pm 0,4 at 50 Hz (*)
DIN53483: 2,7 \pm 0,5 at 10^6 Hz (*)
**Dielectric breakdown
voltage:** 450 \pm 50 kV DIN 53481 (*)
Dielectric loss factor 0,05 \pm 0,01 tan α at 50Hz (*)
DIN 53483: 0,022 \pm 0,018 tan α at 10^6 Hz (*)

(*) No defined values but typical value for this type of resin.

Releases of IM4500

- TÜV certificate for production of impregnating resins according to DIN ISO 9001 / EN29001 since 1993; renewal in 2009 according to DIN EN ISO 9001:2008
- TÜV certificate for production of impregnating resins according to DIN EN ISO 14001:2009 (environmental management; since December 2011)
- Gaz de France Report No 20 0151 from 5. April 2000.
- Additional approvals upon request

All information given herein corresponds to our latest status of knowledge. This information is neither a guarantee for product properties nor legally binding.