

Technical information

# Polimal® VE-2MM TP

DATE: 10.02.2022

**Polimal® VE-2MM TP** is an preaccelerated, tixotropic, medium reactive epoxy-based vinyl ester resin.

## APPLICATION

**Polimal® VE-2MM TP** is recommended for the production of glass fiber reinforced compositions and with high chemical and thermal resistance.

## PACKAGING

220 kg, 1100 kg

## SHELF LIFE

3 months from the production date.

## STORAGE

The resin should be stored in closed original containers, in dry, well ventilated and shaded warehouse compartments adapted for storage of combustible materials at a temperature below 25°C. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time.

## CURING SYSTEM

The resin and components must be seasoned at temperature min. 18°C at a relative humidity below 75% before using. The curing system under productions conditions should be tested.

In order providing optimal mechanical and resistance parameters is recommended to use glass veil with a grammage of 30g/m<sup>2</sup> made of C-glass as first laminate layer and post-curing

at elevated temperature e.g. couple hours at 80°C. Post-curing is especially recommended if parts are intended for contact with chemicals.

**It is required to mix the resin in the tank or in the unit packages before using.**

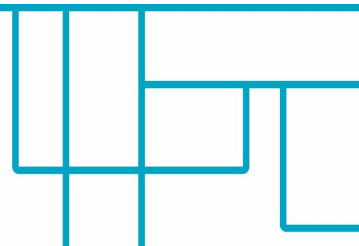
## SPECIFICATION

Parameter	Unit	Value
<b>Viscosity (25°C)</b> sp.21, 100 rpm acc. to ISO 3219	mPa s	<b>250+350</b>
<b>Gel time (25°C)</b> acc. to ISO 2535	min	<b>20+30</b>
<b>Flexural strength</b> acc. to ISO 178	MPa	<b>130</b>
<b>Tensile strength</b> acc. to ISO 527	MPa	<b>75</b>
<b>Tensile modulus</b> acc. to ISO 527	MPa	<b>3500</b>
<b>Elongation at break</b> acc. to ISO 527	%	<b>3,5</b>
<b>Heat resistance, HDT</b> acc. to ISO 75	°C	<b>95</b>
<b>Barcol Hardness</b> acc. to ASTM D 2583	°B	<b>35</b>

**Curing system: 2% MEKP e.g. Luperox K-1S**

Mechanical parameters refer to unreinforced resin cured for 24 hours at room temperature and post-cured for 4 hours at 80 °C.

*The data and suggestions contained in this material are based on our own research and considered by us to be reliable. However, we cannot accept any liability for actions and losses resulting directly or indirectly from the use of the products. The user should check the quality, safety and features of the product before applying it. ATTENTION: This information does not replace the Safety Data Sheet or the Technical Sheet which are master documents available upon request.*



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## CHEMICAL RESISTANCE TABLE

Chemical	Concentration	Temperature, °C
Nitric acid	25%	50
Phosphoric acid	75%	80
Hydrochloric acid	20%	80
Hydrochloric acid	38%	45
Sulphuric acid	10%	90
Sulphuric acid	70%	75
Formic acid	25%	75
Acetic acid	15%	90
Acetic acid	25%	90
Acetic acid	50%	70
Acetic acid	80%	45
Aqueous ammonia	25%	25
Hydrogen peroxide	30%	40
Sodium hydroxide	1%	65
Sodium hydroxide	5%	65
Sodium hydroxide	25%	65
Sodium hydroxide	40%	65
Sodium hypochlorite	1-20%	50
Iron(III)chloride	All	90
Sodium chloride	All	90
Iron(III)sulphate	All	90
CuSO <sub>4</sub> /H <sub>2</sub> SO <sub>4</sub> Electrolyte	20%	65
Ethyl alcohol	15%	50
Ethyl alcohol	45%	50
Carbon tetrachloride	100%	25
Phenol	100%	Not recommended at any temperature
Styrene	100%	Not recommended at any temperature
Acetone	100%	Not recommended at any temperature
Gasoline unleaded, non-containing methanol	100%	50

Assessment of chemical resistance of non-reinforced resin to undermentioned chemicals was carried out under laboratory conditions according to PN-78/C 89067 standard. Test specimens have seasoned for 24 hours at temperature 23°C and the for 4 hours at temperature 80°C.

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