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^2 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
Viscosity (25°C) sp.21, 100 rpm acc. to ISO 3219	mPa s	**250÷350**
Gel time (25°C) acc. to ISO 2535	min	**20÷30**
Flexural strength acc. to ISO 178	MPa	**130**
Tensile strength acc. to ISO 527	MPa	**75**
Tensile modulus acc. to ISO 527	MPa	**3500**
Elongation at break acc. to ISO 527	%	**3,5**
Heat resistance, HDT acc. to ISO 75	°C	**95**
Barcol Hardness acc. to ASTM D 2583	°B	**35**

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.

Sarzyna Chemical sp. z o.o.
ul. Chemików 1
37-310 Nowa Sarzyna
tel. +48 17 24 07 555
www.sarzynachemical.pl

REGON: 365703807
NIP: 7010625863
BDO: 000162456
Kapitał zakładowy:
3 733 850,00 zł

Sąd Rejonowy w Rzeszowie
XII Wydział Gospodarczy
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CHEMICAL RESISTANCE TABLE

Chemical	Concetration	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 amomonia	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
$CuSO_4/H_2SO_4$ 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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