

**TABELUL**  
**Rezistentei chimice a rasinilor poliesterice**

Mediul	Concentratia %	Tipul de rasina si temperatura de lucru maxima recomandata, ° C	
		Polimal 122-2	Polimal VE-11MM
<b>Rezistenta chimica la acizi</b>			
Sulphonamide	10		95
Sulphonamide	25		65
Nitric	5	30	65
Nitric	20	30	45
Nitric	40		NR
Benzenemonosulphonic	50		65
Benzoic	Solutie saturata		95
Boronic (orthoboronic)	Solutie concentrata		95
Hydrobromidic	25		80
Hydrobromidic	48		60
Hydrobromidic	60		35
Chloroacetic	25		45
Chloroacetic	50		35
Chloroacetic	80		NR
Hydrochloric	20	30	80
	37	30	65
Hydrochloric with organic compounds (chiar si numai urme)		NR	NR
Chromic	20		65
Chromic	30		NR
Fluoroboronic	Solutie concentrata		95
Fluorosilica (hexafluorosilica acid)	10		80
	25		35
Phosphoric	Solutie concentrata	30	95
Monochloroacetic	80		NR
Perchloric	10		65
Perchloric	30		40
Acetic	25	30	95
Acetic	50		80
Acetic	75		65
Glacial acetic			NR
Sulphurous	10	30	50
Sulphuric	25	30	95
Sulphuric	70	25	80
Sulphuric	75	25	35
Sulphuric	93	NR	NR

**Unsaturated polyester resins**

Trichloroacetic	50		95
<b>Rezistenta chimica la baze</b>			
Acid sodium sulphide	Solutie saturata		80
Acid ammonium carbonate	50		70
Acid sodium carbonate	Solutie saturata		80
Sodium carbonate	-"	25	80
Magnesium carbonate	-"		80
Ammonium hydroxide	5		80
Ammonium hydroxide	10-20		65
Ammonium hydroxide	29		35
Potassium hydroxide	10	25	65
Potassium hydroxide	25		65
Potassium hydroxide	45		80
Calcium hydroxide	15		80
Calcium hydroxide	50		95
Calcium hydroxide	100		95
Sodium hydroxide	5-25	25	80
Sodium hydroxide	50	25	95
Sodium hydroxide	40		
<b>Rezistenta chimica la agenti oxidanti</b>			
Calcium chlorate	Solutie saturata		95
Sodium chlorate	50-100		95
Chlorine dioxide	Solutie saturata		80
Potassium permanganate	Solutie saturata		95
Hydrogen peroxide	30		65
Calcium hypochlorite	Solutie saturata	25	70
Sodium hypochlorite	5-25	25	65
Chlorinated water	Solutie saturata		80
<b>Rezistenta chimica la alcoolii</b>			
Amyl alcohol	Solutie concentrata		45
Benzyl alcohol	-"		NR
Butyl alcohol	-"		45
Ethyl alcohol (ethanol)	10	25	45
Ethyl alcohol (ethanol)	50		35
Ethyl alcohol (ethanol)	95		25
Methyl alcohol (methanol)	100		NR
<b>Rezistenta chimica la saruri</b>			
Zinc nitrate	Solutie saturata		95
Aluminium nitrate	-"		80
Magnesium nitrate	-"		95
Nickel nitrate	-"		95
Potassium nitrate	-"		95
Sodium nitrate	-"		95
Silver nitrate	-"		95

## Unsaturated polyester resins

Calcium nitrate	-"		95
Ammonium chloride	-"		95
Barium chloride	-"		95
Zinc chloride	70		95
Stannic chloride	Solutie saturata		95
Aluminium chloride	-"		95
Magnesium chloride	-"		95
Nickel chloride	-"		95
Potassium chloride	-"		95
Sodium chloride	10	25	65
Sodium chloride	50		40
Calcium chloride	Solutie saturata	12	95
Ferric chloride	-"		95
Ferrous chloride	-"		95
Potassium permanganate	-"		95
Lead acetate	-"		95
Sodium hypochlorite	150 g/l	25	60
Sodium hypochlorite	250 g/l		50
Barium sulphate	-"		95
Stannic sulphate	-"		95
Aluminium sulphate	-"		95
Magnesium sulphate	-"		95
Nickel sulphate	-"		95
Potassium sulphate	-"		95
Sodium sulphate	-"		95
Ferric sulphate	-"		95
Ferrous sulphate	-"		95
PIX – ferric coagulant (ferric sulphate + H <sub>2</sub> SO <sub>4</sub> to 1 %)			80
<b>Rezistenta chimica la solvent</b>			
Acetone	100		NR
Benzene	100		NR
Methylene chloride	100		NR
Chlorobenzene	100		NR
Chloroform	100		NR
Dichloroethane	100		NR
n-Heptane	100		95
Hexane	100		70
Xylene	100		25
Methyl Ethyl Ketone	100		NR
Nitrobenzene	100		NR
Ethyl acetate	100		NR
Styrene	100		NR
Tetrachloroethylene	100		25
Tetrachloromethane	100		65

## Unsaturated polyester resins

Toluene	100		27
Trichloroethylene	100		NR
Vinyltoluene	100		25
<b>Rezistentă chimică la gaze și vapori</b>			
Liquid ammonia	100		30
Gas ammonia			35
Bromine and its vapours	100		35
Chlorine and its vapours	100		80
Hydrogen chloride – hydrochloric acid vapours			95
Gas hydrogen chloride (dry)	100		95
Sulphur dioxide – dry and wet gas			95
Carbon disulphide – vapours			NR
Gas hydrogen fluoride			80
Generator gas			95
Hydrogen sulphide	5-100		80
Tetrachloromethane – vapours			75
<b>Rezistentă chimică la carburanți</b>			
Unleaded petrol		25	35
Gas oil		25	35
<b>Rezistentă la apă</b>			
Distilled water		80	80
Deionized water		80	80

**Explicații:**

- numerele în tabel înseamnă – temperatura maximă recomandată în °C, la care respectivul tip de rășină rezistă în mediul dat;
- spațiu liber în tabel înseamnă că nu s-au făcut teste de rezistență chimică;
- NR înseamnă că producătorul nu recomandă respectivul tip de rășină pentru mediul chimic dat;

## Unsaturated polyester resins