

## MP Reverso

	DIN	ISO	ASTM	UM	VALUE
<b>General characteristics</b>					
Specific gravity	<b>53479</b>	<b>1183</b>	<b>D792</b>	<b>g/cm<sup>3</sup></b>	<b>1.15</b>
Water absorption	<b>53492</b>	<b>62</b>	<b>D570</b>	<b>%</b>	<b>0.36</b>
<b>Mechanical properties</b>					
Tensile strength	<b>53455</b>	<b>527</b>	<b>D638</b>	<b>MPa</b>	<b>38</b>
Ultimate elongation	<b>53455</b>	<b>527</b>	<b>D638</b>	<b>%</b>	<b>35</b>
Rockwell hardness	<b>/</b>	<b>2039</b>	<b>D785</b>	<b>/</b>	<b>M 42</b>
Impact strength (CHARPY unnotched)	<b>53453</b>	<b>179</b>	<b>/</b>	<b>KJ/m<sup>2</sup></b>	<b>50</b>
Impact strength (IZOD notched)	<b>53453</b>	<b>180</b>	<b>D256</b>	<b>J/m</b>	<b>58.5</b>
<b>Optic properties</b>					
Refractive index B	<b>53491</b>	<b>489</b>	<b>/</b>	<b>/</b>	<b>1.49</b>
Transmittance	<b>5036</b>	<b>/</b>	<b>/</b>	<b>%</b>	<b>90</b>
<b>Thermic properties</b>					
Vicat softening point B/50	<b>53460</b>	<b>306</b>	<b>D1525</b>	<b>°C</b>	<b>88.5</b>
HDT under load -1,82 MPa	<b>53461</b>	<b>75</b>	<b>D648</b>	<b>°C</b>	<b>84,5</b>
Coefficient of thermic expansion	<b>53752</b>	<b>/</b>	<b>/</b>	<b>10<sup>-6</sup> K</b>	<b>100</b>

### **UV COLOUR RESISTANCE**

The lowest value measured according to the "blue colour scale" is:

4/5 for the coloured sheets  
4 for the metal sheets

The tests have been made in QUV.

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### **RESISTANCE TO VARNISH AND SIMILARS**

- + Non aromatic petrol
- o Pure oil paints
- Diluent, in general
- o Inks and varnish for acrylic glass
- Nitro varnish

### **RESISTANCE TO CHEMICAL AGENTS, SOLVENTS**

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>- Ethyl acetate</li><li>+ Sodium acetate 32%</li><li>- Acetone</li><li>+ Acid for accumulators</li><li>o Acetic acid up to 25%</li><li>- Acetic acid, concentrated</li><li>+ Arsenic acid</li><li>o Butyric acid up to 5%</li><li>+ Citric acid, up to 20%</li><li>o Hydrochloric acid</li><li>o Chromic acid</li><li>o Hydrofluoric acid up to 20%</li><li>+ Formic acid, up to 20%</li><li>o Formic acid, up to 40%</li><li>+ Phosphoric acid up to 10%</li><li>+ Lactic acid, up to 20%</li><li>+ Nitric acid, up to 20%</li><li>o Nitric acid, from 20 to 70%</li><li>- Nitric acid, over 70%</li><li>+ Oxalic acid</li><li>+ Sulphuric acid, up to 30%</li><li>+ Sulphurous acid up to 5%</li><li>o Concentrated sulphurous acid</li><li>+ Stearic acid</li><li>+ Tartaric acid up to 50%</li><li>- Trichloroacetic acid</li></ul> | <ul style="list-style-type: none"><li>+ Uric acid up to 20% or chlor water</li><li>+ Oxygenized water up to 40%</li><li>o Oxygenized water over 40%</li><li>+ Soapy water</li><li>- Diacetic alcohol</li><li>o Isopropylic alcohol</li><li>+ Alum</li><li>- Amylacetate</li><li>o Ammonia</li><li>- Liquid sulphurous anhydride</li><li>- Aniline</li><li>+ Arsenic</li><li>- Benzaldehyde</li><li>+ Pure petrol</li><li>- Benzol</li><li>+ Potassium dichromate</li><li>+ Sodium bisulphite</li><li>- Bromine</li><li>- Ethyl bromide</li><li>- Ethylene bromide</li><li>- Butanol</li><li>- Lactic acid butylester</li><li>- Ethyl butyrate</li><li>+ Potassium carbonate</li><li>+ Sodium carbonate</li><li>+ Potassium cyanide</li></ul> |
|---|--|

## MP Reverso

○ Cyclohexane	+ Sodium hypochlorite
○ Cyclohexanole	+ Calcium milk
+ Sodium chlorate	+ Mercury
- Liquid chlor	○ Methanol, up to 30%
- Chloroethylether	- Concentrated methanol
- Chlorophenol	- Methylethylketone
+ Aluminium chloride	+ Monobromic naphthalene
+ Calcium chloride	+ Silver nitrate
+ Ferrous chloride	+ Potassium nitrate
+ Ferric chloride	+ Aluminium oxalate
+ Magnesium chloride	+ Octane
+ Potassium chloride	- Perchloroetyhylene
+ Sodium chloride	+ Potassium permanganate
+ Sulphuryl chloride	+ Hydrogen peroxide up to 40%
+ Stannous chloride	○ Hydrogen peroxide over 40%
- Thionyl chloride	○ Oil
- Liquid chlor	+ Caustic potash
○ Diamylphtalate	+ Propyl
- Dibutilfphalate	- Pyridine
+ Diethylenglicol	+ Soda
- Dioctilfphalate	+ Caustic soda
- Dioxane	+ Aluminium sulphate
+ Heptane	+ Ammonium sulphate
+ Hexane	+ Magnesium sulphate
○ Ethanol, up to 30%	+ Manganese sulphate
- Concentrated ethanol	+ Nichel sulphate
- Ether	+ Sodium sulphate
+ Petroleum ether	+ Solid zinc sulphate
- Phenol	+ Aqueous zinc sulphate
+ Phosphate	- Carbon sulphide
+ Trycresil phosphate	+ Sodium sulphide
- White phosphor	- Spirit
+ Glycerine	- Carbon tetrachloride
+ Glycol	- Silicon tetrachloride

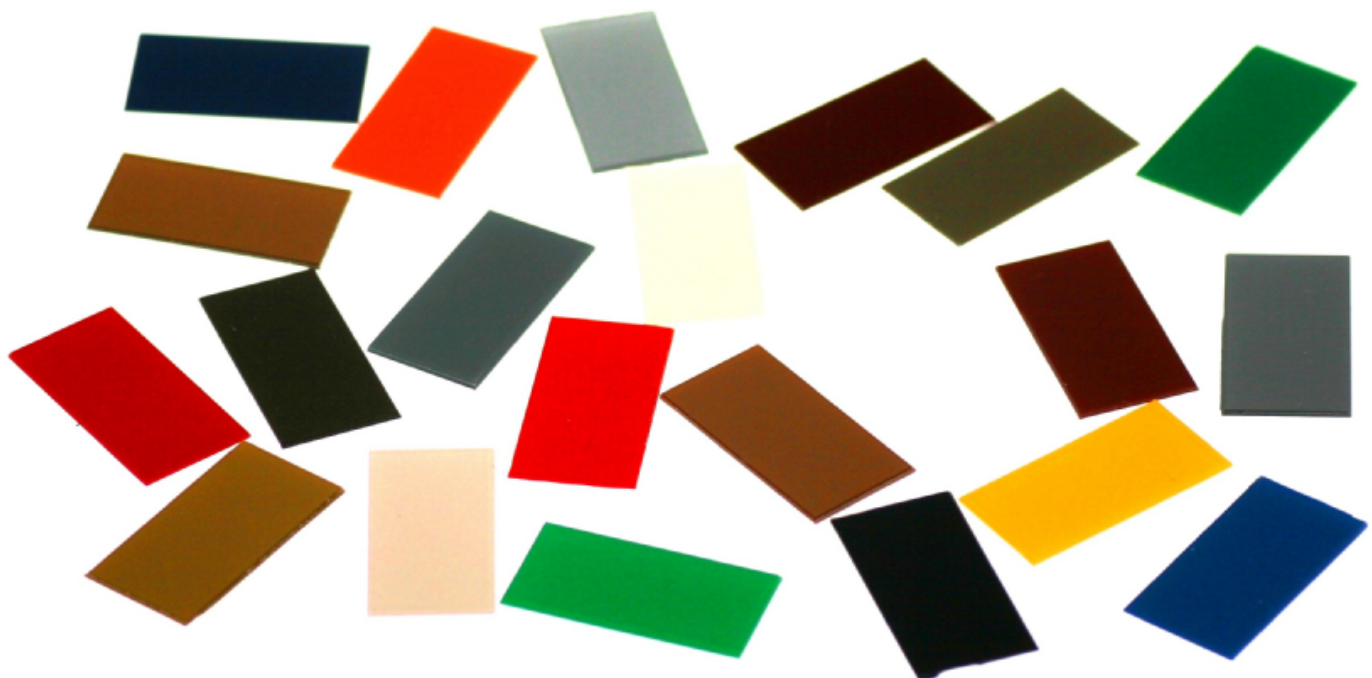
## MP Reverso

- Hydrocarbon chlorate
- + Metallic iodine
- + Calcium hypochlorite
- Phosphorous trichloride
- + Triethanolamine
- + Iron vitriol

- Toluol
- + Oil turpentine
- o Substitute turpentine
- + Sulphur
- Xylol

### THE SYMBOLS STAND FOR:

- = *it doesn't resist*
- o = *it resists relatively*
- + = *it resists*



## MP Reverso

<b>Technical characteristics</b>	
Material:	Impact Modified Acrylic
Temperature resistance:	From - 40°C to + 80°C
Scratch resistance:	Internal Test with Sclerometer (value=300gr)
Outdoor Use:	Yes
Indoor Use:	Yes
Fire resistance:	UL94 method .- HB class
Odour:	Odourless
Engraving method:	Pantograph
Engraving depth:	0.3 mm (0,5 mm for metal tops)
<b>Aesthetic characteristics</b>	
Top finish:	Glossy, Matt
Surface finish:	Without any hole, inclusion, scratch, according to the approved sample
Colour tolerance:	- Max: 1.0 (DE/DE tolerances) measured on the approved sample
	- calculation method: CIE LAB CMC (1:1) (according to the British Standard 6923)
	- Enlightening source/observer: D65/10°
Contaminations:	N° 01 ≤ 1 mm <sup>2</sup>
	N° 01 ≤ 0,5 mm <sup>2</sup>
	N° 03 ≤ 0,2 mm <sup>2</sup>
<b>Geometrical characteristics</b>	
Sheet dimensions:	1220x610 mm (tolerance +/- 0,2%) edges at right angles
Total thickness:	From 0.4 up to 2.2 mm (tolerance +/- 0,1 mm)
	From 2.4 up to 6.4 mm (tolerance +/- 0,2 mm)
Thickness of the top:	0,1 e 0,2 mm (tolerance +/- 0,03 mm)
Planarity:	Max 5 mm camber from surface

The above state information refers to tests carried out at given parameters and on items in standard conditions. The product is suitable only for the above mentioned standard usage parameters. The manufacturer declines any responsibility in case of improper use of the product when the product is exposed to stresses exceeding the values stated herein.