

→ TroPly Ultra, TroPly Ultra Reverse,  
TroPly HiGloss, TroPly HiGloss Reverse –  
Technical Data Sheet



	DIN	ISO	ASTM	UNIT	VALUE
<b>General characteristics</b>					
Specific density	53479	1183	D792	g/cm <sup>3</sup>	1.15
Water absorption	53492	62	D570	%	0.36
<b>Mechanical properties</b>					
Tensile strength	53455	527	D638	MPa	38
Elongation at break	53455	527	D638	%	35
Rockwell hardness	/	2039	D785	/	M 42
Impact strength (CHARPY un-notched)	53453	179	/	KJ/m <sup>2</sup>	50
Impact strength (IZOD notched)	53453	180	D256	J/m	58.5
<b>Optical properties</b>					
Refractive index B	53491	489	/	/	1,49
Transparency	5036	/	/	%	90
<b>Thermal properties</b>					
Vicat softening temperature B/50	53460	306	D1525	°C	88,5
HDT under load – 1.82 MPa	53461	75	D648	°C	84,5
Coefficient of thermal expansion	53752	/	/	10 <sup>-6</sup> K	100
<b>UV colour stability</b>					
The lowest measured value according to the “blue colour scale” is:		4/5 for coloured boards 4 for metal sheets			
The tests were carried out using the QUV method.					

→ TroPly Ultra, TroPly Ultra Reverse,  
TroPly HiGloss, TroPly HiGloss Reverse –  
Technical Data Sheet

**Resistance to lacquer and suchlike**

- + Non-aromatic petrol
- o Pure oil paints
- o Inks and lacquer for acrylic glass
- Nitrocellulose lacquer
- Thinner, general

**Resistance to chemicals, solvents**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>+ Non-aromatic petrol</li> <li>o Pure oil paints</li> <li>- Thinner, general</li> <li>o Inks and lacquer for acrylic glass</li> <li>- Nitrocellulose lacquer</li> <li>- Ethyl acetate</li> <li>+ Sodium acetate, 32%</li> <li>- Acetone</li> <li>+ Battery acid</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 Fluoric 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>+ Sulfuric acid, up to 30%</li> <li>+ Sulfurous acid, up to 5%</li> <li>o Concentrated sulfurous acid</li> <li>+ Stearic acid</li> <li>+ Tartaric acid, up to 50%</li> <li>- Trichloroacetic acid</li> <li>o Cyclohexane</li> <li>o Cyclohexanol</li> <li>+ Sodium chlorate</li> <li>- Liquid chlorine</li> <li>- Chloroethyl ether</li> <li>- Chlorophenol</li> <li>+ Aluminium chloride</li> <li>+ Calcium chloride</li> <li>+ Iron(II) chloride</li> <li>+ Iron(III) chloride</li> <li>+ Magnesium chloride</li> <li>+ Potassium chloride</li> <li>+ Sodium chloride</li> <li>+ Sulfuryl chloride</li> <li>+ Tin(II) chloride</li> <li>- Thionyl chloride</li> </ul> | <ul style="list-style-type: none"> <li>+ Uric acid, up to 20%, or chlorine water</li> <li>+ Oxygen-enriched water, up to 40%</li> <li>o Oxygen-enriched water, over 40%</li> <li>+ Soapy water</li> <li>- Diacetone alcohol</li> <li>o Isopropyl alcohol</li> <li>+ Alum</li> <li>- Amyl acetate</li> <li>o Ammonia</li> <li>- Liquid sulfur dioxide</li> <li>- Aniline</li> <li>+ Arsenic</li> <li>- Benzaldehyde</li> <li>+ Pure petrol</li> <li>- Benzene</li> <li>+ Potassium dichromate</li> <li>+ Sodium bisulfite</li> <li>- Bromine</li> <li>- Ethyl bromide</li> <li>- Ethylene bromide</li> <li>- Butanol</li> <li>- Butyl lactate</li> <li>- Ethyl butyrate</li> <li>+ Potassium carbonate</li> <li>+ Sodium carbonate</li> <li>+ Potassium cyanide</li> <li>+ Sodium hypochlorite</li> <li>+ Lime water</li> <li>+ Mercury</li> <li>o Methanol, up to 30%</li> <li>- Concentrated methanol</li> <li>- Butanone</li> <li>+ Monobromo naphthalene</li> <li>+ Silver nitrate</li> <li>+ Potassium nitrate</li> <li>+ Aluminium oxalate</li> <li>+ Octane</li> <li>- Perchloroethylene</li> <li>+ Potassium permanganate</li> <li>+ Hydrogen peroxide, up to 40%</li> <li>o Hydrogen peroxide, over 40%</li> <li>o Oil</li> <li>+ Potassium hydroxide solution</li> <li>+ Propyl</li> <li>- Pyridine</li> <li>+ Sodium bicarbonate</li> <li>+ Sodium hydroxide solution</li> </ul> |
|---|--|

→ TroPly Ultra, TroPly Ultra Reverse,  
TroPly HiGloss, TroPly HiGloss Reverse –  
Technical Data Sheet



<ul style="list-style-type: none"> <li>- Liquid chlorine</li> <li>o Diamyl phthalate</li> <li>- Dibutyl phthalate</li> <li>+ Diethylene glycol</li> <li>- Dioctyl phthalate</li> <li>- Dioxane</li> <li>+ Heptane</li> <li>+ Hexane</li> <li>o Ethanol, up to 30%</li> <li>- Concentrated ethanol</li> <li>- Ether</li> <li>+ Petroleum ether</li> <li>- Phenol</li> <li>+ Phosphate</li> <li>+ Tricresyl phosphate</li> <li>- White phosphorus</li> <li>+ Glycerin</li> <li>+ Glycol</li> <li>- Chlorinated hydrocarbon</li> <li>- Metallic iodine</li> <li>+ Calcium hypochlorite</li> <li>- Phosphorus trichloride</li> <li>+ Triethanolamine</li> <li>+ Iron vitriol</li> </ul>	<ul style="list-style-type: none"> <li>+ Aluminium sulfate</li> <li>+ Ammonium sulfate</li> <li>+ Magnesium sulfate</li> <li>+ Manganese sulfate</li> <li>+ Nickel sulfate</li> <li>+ Sodium sulfate</li> <li>+ Solid zinc sulfate</li> <li>+ Aqueous zinc sulfate</li> <li>- Carbon disulfide</li> <li>+ Sodium sulfide</li> <li>- Methylated spirit</li> <li>- Carbon tetrachloride</li> <li>- Silicon tetrachloride</li> <li>- Toluene</li> <li>+ Turpentine</li> <li>o White spirit</li> <li>+ Sulfur</li> <li>- Xylene</li> </ul>
THE SYMBOLS STAND FOR:	<ul style="list-style-type: none"> <li>- = not resistant</li> <li>o = relatively resistant</li> <li>+ = resistant</li> </ul>
<b>Technical characteristics</b>	
Material:	impact modified acrylic
Temperature resistance:	from -40 °C to +80 °C
Scratch resistance:	internal test with sclerograph (value = 300 g)
Outdoor use:	yes
Indoor use:	yes
Fire resistance:	UL94 method – class HB
Odour:	odourless
Engraving method:	pantograph, laser
Engraving depth:	0.3 mm (0.5 mm for metal surfaces)

All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and that purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations, Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PURPOSE. PRODUCTS WILL MEET SELLER'S STANDARD SPECIFICATIONS THEREFORE, BUT THERE ARE NO OTHER WARRANTIES FOR THE PRODUCTS DESCRIBED.