RectuPom chemical resistance

1 = resistant — Weight increase < 3% or weight loss < 0.5% and/or decrease in tensile strength < 15%
2 = limited resistance — Weight increase 3 - 8% or weight loss 0.5 - 3% and/or decrease in tensile strength 15 - 30%
3 = not resistant — Weight increase > 8% or weight loss > 3% and/or decrease in tensile strength > 30%

Chemicals	Temperature	
	20°C	50°C
Acetic acid (10%)*	1	1
Acetic acid (80%)	2	3
Acetone	1	2
Acetylene tetrabromide (10%)*	2	3
Ammonia (10%)	1	1
Ammonia (conc.)	1	1
Ammonium sulphate ®Hoechst (10%, pH 5.8)	1	3
Benzol	2	2
Butanol	1	1
Butyl acetate	1	2
Butyraldehyde	2	2
Butyric acid (1%)*	1	1
Butyric acid (98)	2	2
Calcium ammonium nitrate	1	1
Calcium chloride (10%)	1	1
Calcium nitrate ®Hoechst (pH 6.4) (10%)	1	1
Cananga oil	1	1
Carbon disulphide	1	1
Carbon tetrachloride	1	2
CFC (partially halogenated)	3	3
CFC (perhalogenated)	1	1
Chlorinated lime (approx. 10%)	3	3
Chlorobenzene	2	2
Chloroethyl (DAB 6)	1	2
Chloroform	3	3
Chromic acid (3%)	2	2
®Complesal Type Blue 12+12+17+2 (10%, pH 5,8)	1	1
Citric acid (10%)	1	3
Clophen A 60 (Bayer)	1	1
Coffee (®Nescafe)	1	1
Copper sulphate (10%)	1	1
Developer solution 1:50 (pH 10,9) (®Rodinal Agfa)	1	1
Developer solution 1:100 (pH 10.4) (®Rodinal Agfa)	1	1
Dibutyl phthalate	1	1
Diesel oil	1	1
Dimethyl phthalate	1	2
Dioctyl sebacate	1	1
Dioxane	2	2
Engine oil BP HP 20	1	1
Engine oil SAW 40 (Caltrex)	1	1
Ethanol (96%)	1	1
Ether (DAB 6)	1	1
Ethyl acetate	2	2
Ethyl glycol	1	2
Fixing bath solution (pH 5.4)	1	2
Formaldehyde (40%)	1	1
Formic acid (10%)*	1	3
Fuel oil EL	1	1
Galbanum resin	1	
®Genantin drinking water 1:1	1	
(+1% ®Donax C, Shell)		
Glacial acetic acid	2	3

Chemicals	Temperature	
	20°C	50°C
Glycerin	1	1
Glycol	1	1
Glycol/distilled water 48 : 52	1	1
®Grisiron GBF 1 (5g to 100g H2O)	1	1
Hydrochloric acid (10%)	3	3
Hydrogen peroxide (30%)*	1	3
Hydroxycitronellal	1	1
Ink (®Pelikan ink, blue-black)	1	3
Iron chloride (10%)	2	3
Isopropyl alcohol	1	1
JP 1 fuel (Shell)	1	1
JP 4 fuel (Shell)	1	1
Lactic acid (10%)*	1	2
Lactic acid (90%)*	1	3
Lavender oil, finest	1	1
Lemongrass oil	1	1
Methanol	1	1
Methyl acetate	2	2
Methyl bromide	3	3
Methyl ethyl ketone	2	2
Methyl glycol	2	2
Methyl glycol acetate	2	3
Methylene bromide	3	3
Methylene chloride, technical	3	3
Methylisobutylketone	1	1
Methylisopropylketone	1	1
Mineral oil	1	1
Mobil oil HD SAE 20 after 3000 km	1	1
Mobil oil SAE 20	1	1
Natural gas	1	1
n-Hexane	1	1
Nickel sulphate (10%)	1	1
Nitric acid (10%)	3	3
Nitrogen phosphate ®Hoechst (10%, ph 5.1)	1	1
Nitrous gases	3	3
Normal car petrol	1	1
Oil of cloves	1	
Olive oil	1	2
Ozone	3	3
Peat water (pH 3.7)	1	1
Perchloroethylene	1	2
®Persil 59 (5%, Henkel)	1	1
Petrol (BP 100-140°C)	1	1
Petrol with 15 ... 20% methanol	1	1
Petrol/benzol mixture (super grade petrol)	1	1
Petroleum	1	1
Phenol	3	3
Phosphoric acid (25%)	1	3
Potassiom hydroxide (potash lye, caustic potash)	1	1
Potassium permanganate (10%)*	1	1
Seawater (North Sea)	1	1
Sodium bicarbonate (10%)	1	1

Chemicals	Temperature	
	20°C	50°C
Sodium bisulphite lye (pH 4.5)	3	3
Sodium carbonate (10%)	1	1
Sodium chloride	1	1
Sodium hydroxide (sodium lye, caustic soda)	1	1
Sodium hypochlorite (bleaching sol. about 12.5% active chlorine)	2	3
Sodium nitrate ®Hoechst (10%, pH 0.8)	1	1
Sodium o-phosphate, primary (10%)	1	1
Sodium o-phosphate, sec. (10%)	1	1
Sodium o-phosphate, tert. (10%)	1	1
Soya oil	1	1
Sulphur dioxide gas	3	3
Sulphuric acid (10%)*	1	3
Sulphuric acid (50%)	3	3
Tetrahydrofuran	2	2
®Tetralin (Henkel)	1	2
Thiophene	2	2
Toluol	1	1
Transformer oil (®Univolt 36, Esso)	1	1
Tricholorethylene	2	2
Urine	1	1
Water, distilled	1	1
Xylol	1	1

* Because of the acid or oxidizing nature of these chemicals, practical trials are recommended before prolonged contact with Rectus products.

The results were obtained using injection-moulded, 1 mm thick test samples after a test duration of 60 days. During this, the test samples were under the influence of no external tension.