

## General properties: **MEMBRANE**

Material code	PR 4915d / VB 4915d
Formulation of raw material	Based on SEBS
Hardness	40 +- 3 shore A
Service temperature range	-50 -- + 110°C (unstressed material)
Color	White
Weatherability	Excellent Ozone-/UV-resistance excellent
Chemical resistance	Good, (excluding organic solvents, aromatic- and vegetable oils)
Recycling	100% recyclable

## Mechanical and physical properties:

Properties	Standard	Test unit	Typical value
Hardness	ISO 868	Shore A	40
Specific gravity	ISO 2781	g/cm <sup>3</sup>	0.94
Tensile strenght	ISO 37	MPa	6.4
E-100	ISO 37	MPa	1.7
E-200	ISO 37	MPa	2.1
E-300	ISO 37	MPa	3.3
Elongation at break	ISO 37	%	650
Tear strength	ISO 37	N	28

## Chemical resistance: REFERENCE LIST

1 Acetaldehyde	R	73 Ethyl bromide	R	145 Oils vegetable	T
2 Acetates (low mol wt)	R	74 Ethyl chloride	R	146 Oleic acid	R
3 Acetic acid (less then 5%)	R	75 Ethylamine	R	147 Oxalic acid	R
4 Acetic acid (more then 5%)	R	76 Ethylene chlorohydrin	R	148 Oxygen (gas)	R
5 Acetic anhydride	T	77 Ethylene dichloride	R	149 Ozone	R
6 Aceto nitrile	R	78 Ethylene glycol	T	150 Perchloric acid	R
7 Acetone	T	79 Ethylene oxide	R	151 Perchloroethylene	T
8 Acetyl bromide	R	80 Fatty acids	T	152 Phenol	N
9 Acetyl chloride	R	81 Ferric chloride	R	153 Phosphoric acid (ortho)	R
10 Air	R	82 Ferric sulfate	R	154 Phthalic acid	N
11 Alcohols	T	83 Ferrous chloride	R	155 Plating solutions	R
12 Aliphatic hydrocarbons (C4 and higher)	N	84 Ferrous sulfate	R	156 Polyglycol	T
13 Aluminium chloride	R	85 Fluoborate salts	R	157 Potassium carbonate	R
14 Aluminium sulphate	R	86 Fluoboric acid	R	158 Potassium chlorate	R
15 Alums	R	87 Fluo-silicic acid	R	159 Potassium hydroxide (med.conc.)	R
16 Ammonia (gas, liquid)	R	88 Formaldehyde	R	160 Potassium hydroxide (conc.)	R
17 Ammonium acetate	R	89 Formic acid	R	161 Potassium iodide	R
18 Ammonium carbonate	R	90 Freon	T	162 Propinal Adehyde	R
19 Ammonium chloride	R	91 Gasoline (non-aromatic)	N	163 Pyridine	R
20 Ammonium hydroxide	R	92 Gasoline (high-aromaticity)	N	164 Sea water	R
21 Ammonium nitrate	R	93 Glucose (dextrose)	R	165 Silicone fluids	R
22 Ammonium phosphate	R	94 Glue (water base)	R	166 Silicone oil	R
23 Ammonium sulfate	R	95 Glycerine	T	167 Silver nitrate	R
24 Amyl acetate	N	96 Grease	T	168 Skydrol	N
25 Amyl alcohol	N	97 Hydriodic acid	R	169 Soap solutions	R
26 Amyl chloride	N	98 Hydro bromic acid	R	170 Sodium bicarbonate	R
27 Aniline	T	99 Hydrochloric acid	R	171 Sodium bisulfate	R
28 Aniline hydrochloride	T	100 Hydrochloric acid (med.conc.)	R	172 Sodium bisulfite	R
29 Antimony salts	R	101 Hydrochloric acid (conc.)	R	173 Sodium borate	R
30 Aqua regia (75% HC1 25% HNO <sup>3</sup> )	R	102 Hydrocyanic acid	R	174 Sodium carbonate	R
31 Aromatic hydrocarbons	N	103 Hydrofluoric acid	R	175 Sodium chlorate	R
32 Arsenic salts	R	104 Hydrogen peroxide (dil.)	R	176 Sodium chloride	R
33 Barium salts	R	105 Hydrogen peroxide (conc.)	R	177 Sodium terocyanide	R
34 Benzaldehyde	N	106 Hydrogen sulfide	T	178 Sodium hydrosulfite	R
35 Benzene	N	107 Hypochlorous acid	R	179 Sodium hydroxide (dil.)	R
36 Benzene sulfonic acid	R	108 Iodine and solutions	T	180 Sodium hydroxide (med.conc.)	R
37 Benzoic acid	N	109 Iron salts	R	181 Sodium hydroxide (conc.)	R
38 Benzyl alcohol	N	110 Isopropanol (IPA)	R	182 Sodium hypochlorite (below 5%)	R
39 Bleaching liquors (non aromatic)	R	111 Kerosene	N	183 Sodium hypochlorite (above 5%)	R
40 Boric acid	R	112 Ketones (water soluble)	R	184 Sodium nitrate	R
41 Bromine	R	113 Lactic acids	R	185 Sodium silicate	R
42 Break fluid	R	114 Laquer solvents	N	186 Sodium sulfide	R
43 Butane	N	115 Lactic acids	R	187 Sodium sulfite	R
44 Butyl acetate	N	116 Lead Acetate	R	188 Steam (up to 40 psi)	T
45 Buryl alcohil (Butanol)	T	117 Linseed Oil	N	189 Stearic acid	R
46 Butyric acid	R	118 Lithium hydroxide	R	190 Styrene	N
47 Calcium oxide (diluted)	R	119 Magnesium chloride	R	191 Sulfur chloride	R
48 Calcium salts	R	120 Magnesium sulfate	R	192 Sulfur dioxide	R
49 Carbon (di)sulfide	N	121 Malic acid	R	193 Sulfuric hezafluoride	R
50 Carbon dioxide	R	122 Manganese salts	R	194 Sulfuric trioxide	R
51 Carbon tetrachloride	T	123 Mercury salts	R	195 Sulfuric acid (dil.)	R
52 Chloracetic acid	R	124 Methane	N	196 Sulfuric acid (med.conc.)	R
53 Chlorine (wet)	R	125 Methanol (<40%)	R	197 Sulfuric acid (conc.)	R
54 Chlorine (dry)	R	126 Methanol (>40%)	T	198 Sulfurous acid	R
55 Chlorobenzene	N	127 Methyl chloride	R	199 Swimming pool water	R
56 Chlorobromomethane	N	128 Methyl-ethyl-ketone (MEK)	R	200 Tannic acid	R
57 Chloroform	N	129 Methylen chloride	R	201 Tanning extracts	R
58 Chlorosulfonic acid	R	130 Milk	R	202 Tataric acid	R
59 Chromic acid	R	131 Mixes acid (40% sulphuric 15% nitric)	R	203 Tin salts	R
60 Chromium salts	R	132 Molybdenum disulfide	R	204 Titanium salts	R
61 Citric Acid	R	133 Monoethanolamine	T	205 Toluene (toluol)	N
62 coolant	R	134 Naphtha	N	206 Trichloracetic acid	R
63 Copper salts	R	135 Natural gas	N	207 Trichloroethylene	N
64 Cresol	N	136 Nickel salts	R	208 Tri-sodium	R
65 Cyclohexane	N	137 Nitric acid (diluted)	R	209 Turpentine	N
66 Cyclohexanone	N	138 Nitric acid (med. Conc.)	R	210 Urea	R
67 Diacetone alcohol	R	139 Nitric acid (conc.)	R	211 Uric Acid	R
68 Dimethyl formamide	R	140 Nitrobenzene	N	212 Vinyl plastisol	N
69 Essential oils	R	141 Nitrogen oxides	R	213 Water	R
70 Ethers	N	142 Nitrous acid	R	214 Water (brine)	R
71 Ethyl acetate	R	143 Oils animal	T	215 Xylene (Xylo)	N
72 Ethyl alcohol (Ethanol)	T	144 Oils mineral	T	216 Zinc chloride	R

R: resistant

N: not resistant

T: testing recommended before use