

# TR SEBS Chemical resistance

medium	Test condition	SN940			SN960			SN990		
		Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A
Acetic acid 10%	7d/RT	NR	NR	NR	+21	+27	-15	+5	+7	-3
	14d/RT	NR	NR	NR	+44	+53	-18	+8	+10	-4
	21d/RT	NR	NR	NR	+66	+79	-24	+10	+13	-7
Acetone	7d/RT	-23	-30	+14	-15	-19	0	-3	-3	-1
	14d/RT	-22	-29	+13	-14	-18	+2	-3	-3	-1
	21d/RT	-16	-22	+10	-11	-14	+1	-1	-1	-1
Break fluid	7d/RT	-5	-7	-3	-4	-6	0	+0.4	+0.4	-1
	14d/RT	-7	-10	-2	-5	-7	-1	0	0	0
	21d/RT	-8	-12	-2	-6	-9	-1	0	0	0
	70h/120 °C	-23	-33	+21	-18	-27	+15	-6	-6	+1
	7d/120 °C	-23	-33	+23	-19	-28	+16	-7	-7	+1
Butanol	7d/RT	NR	NR	NR	NR	NR	NR	-4	-4	0
	14d/RT	NR	NR	NR	NR	NR	NR	-6	-6	+1
	21d/RT	NR	NR	NR	NR	NR	NR	-6	-6	+1
Chlorine solution	7d/23 °C	-0.1	-0.1	0	0	0	0	+0.1	+0.1	0
Coolant (glysantine: Distilled water=1.1)	7d/90 °C	+4	+4	-5	+3	+3	-5	+4	+4	-2
	14d/90 °C	+6	+7	-5	+6	+6	-7	+7	+8	-4
	21d/90 °C	+9	+12	-13	+10	+12	-12	+10	+12	-6
Coolant (glysantine: Distilled water=1.1 +1% Kutwell 40)	7d/90 °C	+0.2	+0.2	-1	+0.2	+0.2	-1	+0.3	+0.7	-1
	14d/90 °C	+0.2	+0.2	-1	+0.2	+0.2	+1	+0.4	+0.8	0
	21d/90 °C	+0.2	+0.2	-1	+0.2	+0.2	0	+0.3	+0.8	0
Distilled water	7d/80 °C	+0.6	+0.6	0	+0.4	+0.4	0	+0.9	+0.9	0
Ethanol	7d/RT	-7	-9	+2	-5	-5	+1	-0.8	-0.8	0
	14d/RT	-7	-9	+2	-5	-5	+1	-0.2	-0.2	-1
	21d/RT	-7	-9	+1	-5	-5	+1	+0.6	+0.6	-1
Ethyl acetate	7d/RT	-18	-25	+2	-14	-18	+2	-4	-6	0
	14d/RT	-18	-26	+4	-15	-19	+4	-5	-7	0
	21d/RT	-19	-26	+5	-15	-20	+4	-5	-6	0
Ethylene glycol	7d/RT	+1	+0.2	-1	+1	+3	0	0	0	0
	14d/RT	+2	+1.5	-2	+1.5	+3	-2	+0.3	0	0
	21d/RT	+3	+3	-4	+3	+5	-3	+0.4	0	-1
Formic acid 10%	7d/RT	+22	+26	-6	+12	14	-10	+4	+4	-3
	14d/RT	+43	+53	-11	+25	29	-15	+4	+4	-7
	21d/RT	+63	+74	-15	+38	44	-19	+7	+7	-8
Formaldehyde	7d/RT	+9	+11	-5	+2.5	+3	-9	+0.6	+0.7	0
	14d/RT	+17	+19	-7	+5	+6	-10	+0.7	+0.7	0
	21d/RT	+24	+26	-8	+7	+8	-11	0	+0.9	0
Gasoline A (isooctane)	7d/RT	+4	+19	-7	+0.8	+12	-13	-0.5	+6	0
	14d/RT	+5	+20	-10	+1	+12	-13	-0.6	+6	0
	21d/RT	+4	+19	-8	+1.3	+13	-16	-0.4	+6	-6
Gasoline B (isooctane:Toluene =7:3)	7d/RT	NR	NR	NR	NR	NR	NR	+11	+28	-7
	14d/RT	NR	NR	NR	NR	NR	NR	+7	+23	-18
	21d/RT	NR	NR	NR	NR	NR	NR	+18	+28	-21
Gasoline c (isooctane:Toluene =1:1)	7d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	14d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	21d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
Gasoline fam. 2	7d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	14d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	21d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
Grease (multi-putpose Shell Retimax A)	7d/40 °C	+17	+21	-6	+8	+10	-4	+4	+5	-1
	14d/40 °C	+25	+30	-7	+18	+22	-10	+5	+6	-2
	21d/40 °C	+31	+40	-12	+22	+27	-11	+6	+7	-3
Glycerin	7d/RT	-0.1	-0.1	0	-0.1	-0.1	-1	0	0	0
	14d/RT	-0.1	-0.1	-1	0	0	-1	0	0	0
	21d/RT	0	0	-1	-0.1	-0.1	-1	0	0	0
Hydrochloride	7d/RT	ND	ND	ND	-0.2	-0.2	-3	0	0	0
	14d/RT	ND	ND	ND	-0.1	-0.1	-4	0	0.5	0
	21d/RT	ND	ND	ND	-0.3	+0.3	-4	+0.4	+0.4	0

NR: not resistance

ND: no data

# Cawiton Chemical resistance

medium	Test condition	SN940			SN960			SN990		
		Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A
H2O2 12%	3d/RT	+0.2	+0.2	-1	+0.1	-0.8	-2	0	0	0
Isopropanol = isopropylalcohol	7d/RT	-25	-35	+21	-21	-27	-13	-4	-5	0
	14d/RT	-29	-40	+27	-23	-30	+17	-5	-5	0
	21d/RT	-30	-40	+32	-24	-32	+21	-5	-5	0
Lactic acid concentrated	7d/RT	+0.7	-1	+1	+0.6	+0.6	+2	+0.2	+0.2	-1
	14d/RT	+1.3	-0.4	+2	+1	+0.6	+2	+0.3	+0.3	0
	21d/RT	+1.5	-0.2	+2	+1.3	+0.8	+2	+0.5	+0.5	0
Lactic acid 10%	7d/RT	+1.3	+0.5	-1	+0.6	-1.9	-1	+0.2	+0.2	-1
	14d/RT	+2.1	+0.3	-2	+1.2	-1.4	-2	+0.2	+0.2	-1
	21d/RT	+2.2	+0.5	-2	+1.5	-1.1	-3	+0.3	+0.3	-1
Methanol	7d/RT	-7	-10	+6	-2	-3	0	+0.5	+0.5	-1
	14d/RT	-7	-9	+5	-2	-3	0	+1	+1	-1
	21d/RT	-6	-8	+7	-1	-2	-1	+2	+2	-1
Methylen chloride	7d/RT	+8	-8	-18	+10	-3	-9	+9	0	-3
	14d/RT	+13	-5	-24	+10	-3	-12	+7	-3	-5
	21d/RT	+13	-4	-28	+12	-2	-16	+7	-3	-7
Methyl-ethyl-Ketone	7d/RT	-20	-26	+9	-13	-16	-1	-6	-6	-1
	14d/RT	-21	-27	+13	-14	-22	+2	-6	-6	-1
	21d/RT	-21	-27	+14	-14	-17	+2	-6	-6	0
Nitric acid 10%	7d/RT	+0.8	+0.8	-1	+0.4	-0.4	-2	0	0	0
Nitric acid 50%	7d/RT	+15	+13	-6	+13	+11	-6	+4	+4	-1
Oil (ASTM oil no.1) paraffinic	7d/100 °C	NR	NR	NR	NR	NR	NR	+8	+10	-5
	14d/100 °C	NR	NR	NR	NR	NR	NR	+9	+10	-6
	21d/100 °C	NR	NR	NR	NR	NR	NR	+9	+11	-5
Oil (ASTM oil no.3) aromatic	7d/100 °C	NR	NR	NR	NR	NR	NR	+37	+45	-25
	14d/100 °C	NR	NR	NR	NR	NR	NR	+27	+32	-23
	21d/100 °C	NR	NR	NR	NR	NR	NR	+25	+30	-23
Propinal-adehyde	7d/RT	-20	-27	+7	-17	-22	+4	-3	-3	-1
	14d/RT	-16	-21	+5	-18	-13	+6	-2	-2	-2
	21d/RT	-18	-21	0	-18	-23	+6	-2	-3	-3
Salt-solutions 10%	7d/RT	+0.1	+0.1	-1	0	0	0	0	0	0
	14d/RT	+0.2	+0.2	-1	+0.1	+0.1	0	+0.1	+0.1	0
	21d/RT	+0.1	0.1	-1	+0.1	+0.1	0	+0.1	+0.1	0
Sea water	7d/50 °C	+0.2	-0.7	0	+0.2	-0.2	0	+0.6	+0.6	0
Soap solutions 30%	7d/40 °C	+0.5	+0.5	-4	+0.2	-0.6	-4	-0.3	-0.3	-1
	14d/40 °C	-2	-4	-2	-3	-5	-1	-3	-3	0
	21d/40 °C	-6	-9	-1	-6	-9	0	-5	-5	+1
Soda-lye 10%	7d/RT	+0.2	+0.2	+2	-0.2	-0.6	0	0	0	0
	14d/RT	+0.2	+0.2	+2	-0.1	-0.1	-1	+0.2	+0.2	0
	21d/RT	+0.2	+0.2	0	0	0	-1	+0.2	+0.2	0
Soda-lye 50%	7d/RT	+0.2	+0.2	+1	-0.2	-0.2	-3	-0.1	-0.1	+1
	14d/RT	0	0	+1	-0.2	-0.2	-3	0	0	+1
	21d/RT	0	0	+1	-0.1	-0.1	-2	0	0	+1
Soft soap	7d/RT	-4	-5	-2	-4	-5	-1	-3	-3	0
	14d/RT	-7	-10	0	-7	-10	+1	-4	-5	+1
	21d/RT	-11	-15	+2	-11	-15	+3	-5	-8	0
Sulphuric acid 50%	7d/RT	+0.1	+0.1	+5	-0.1	-0.5	+5	-0.2	-0.2	0
	14d/RT	+0.1	+0.1	+4	0	0	+2	-0.1	-0.1	0
	21d/RT	0	+0.8	+5	0	+0.5	+2	-0.1	-0.1	0
Sulfuric acid 96%	7d/RT	-0.3	-0.7	+1	-0.2	-0.2	-5	-0.1	-1	0
	14d/RT	0	-0.5	+2	0	+0.4	-1	+0.1	+0.1	0
	21d/RT	+0.4	-0.1	+3	0	0	-4	+0.1	+0.3	0

NR: not resistance

ND: no data

# TR SEBS Chemical resistance

medium	Test condition	PR 3355 L (40) Value change			PR 3555 I (60) Value change			PR 2965 (65) Value change		
		Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A	Weight %	Volume %	Hardness Shore A
Acetic acid 10%	7d/RT	NR	NR	NR	+21	+27	-15	+5	+7	-3
	14d/RT	NR	NR	NR	+44	+53	-18	+8	+10	-4
	21d/RT	NR	NR	NR	+66	+79	-24	+10	+13	-7
Acetone	7d/RT	-23	-30	+14	-15	-19	0	-3	-3	-1
	14d/RT	-22	-29	+13	-14	-18	+2	-3	-3	-1
	21d/RT	-16	-22	+10	-11	-14	+1	-1	-1	-1
Break fluid	7d/RT	-5	-7	-3	-4	-6	0	+0.4	+0.4	-1
	14d/RT	-7	-10	-2	-5	-7	-1	0	0	0
	21d/RT	-8	-12	-2	-6	-9	-1	0	0	0
	C	-23	-33	+21	-18	-27	+15	-6	-6	+1
	C	-23	-33	+23	-19	-28	+16	-7	-7	+1
Butanol	7d/RT	NR	NR	NR	NR	NR	NR	-4	-4	0
	14d/RT	NR	NR	NR	NR	NR	NR	-6	-6	+1
	21d/RT	NR	NR	NR	NR	NR	NR	-6	-6	+1
Chlorine solution	7d/RT	-0.1	-0.1	0	0	0	0	+0.1	+0.1	0
Coolant (glysantine: Distilled water=1.1)	C	+4	+4	-5	+3	+3	-5	+4	+4	-2
	C	+6	+7	-5	+6	+6	-7	+7	+8	-4
	C	+9	+12	-13	+10	+12	-12	+10	+12	-6
Coolant (glysantine: Distilled water=1.1 +1% Kutwell 40)	C	+0.2	+0.2	-1	+0.2	+0.2	-1	+0.3	+0.7	-1
	C	+0.2	+0.2	-1	+0.2	+0.2	+1	+0.4	+0.8	0
	C	+0.2	+0.2	-1	+0.2	+0.2	0	+0.3	+0.8	0
Distilled water	C	+0.6	+0.6	0	+0.4	+0.4	0	+0.9	+0.9	0
Ethanol	7d/RT	-7	-9	+2	-5	-5	+1	-0.8	-0.8	0
	14d/RT	-7	-9	+2	-5	-5	+1	-0.2	-0.2	-1
	21d/RT	-7	-9	+1	-5	-5	+1	+0.6	+0.6	-1
Ethyl acetate	7d/RT	-18	-25	+2	-14	-18	+2	-4	-6	0
	14d/RT	-18	-26	+4	-15	-19	+4	-5	-7	0
	21d/RT	-19	-26	+5	-15	-20	+4	-5	-6	0
Ethylene glycol	7d/RT	+1	+0.2	-1	+1	+3	0	0	0	0
	14d/RT	+2	+1.5	-2	+1.5	+3	-2	+0.3	0	0
	21d/RT	+3	+3	-4	+3	+5	-3	+0.4	0	-1
Formic acid 10%	7d/RT	+22	+26	-6	+12	14	-10	+4	+4	-3
	14d/RT	+43	+53	-11	+25	29	-15	+4	+4	-7
	21d/RT	+63	+74	-15	+38	44	-19	+7	+7	-8
Formaldehyde	7d/RT	+9	+11	-5	+2.5	+3	-9	+0.6	+0.7	0
	14d/RT	+17	+19	-7	+5	+6	-10	+0.7	+0.7	0
	21d/RT	+24	+26	-8	+7	+8	-11	0	+0.9	0
Gasoline A (isooctane)	7d/RT	+4	+19	-7	+0.8	+12	-13	-0.5	+6	0
	14d/RT	+5	+20	-10	+1	+12	-13	-0.6	+6	0
	21d/RT	+4	+19	-8	+1.3	+13	-16	-0.4	+6	-6
Gasoline B (isooctane:Toluene =7:3)	7d/RT	NR	NR	NR	NR	NR	NR	+11	+28	-7
	14d/RT	NR	NR	NR	NR	NR	NR	+7	+23	-18
	21d/RT	NR	NR	NR	NR	NR	NR	+18	+28	-21
Gasoline c (isooctane:Toluene =1:1)	7d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	14d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	21d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
Gasoline fam. 2	7d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	14d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
	21d/RT	NR	NR	NR	NR	NR	NR	NR	NR	NR
Grease (multi- purpose Shell Retimax A)	C	+17	+21	-6	+8	+10	-4	+4	+5	-1
	C	+25	+30	-7	+18	+22	-10	+5	+6	-2
	C	+31	+40	-12	+22	+27	-11	+6	+7	-3
Glycerin	7d/RT	-0.1	-0.1	0	-0.1	-0.1	-1	0	0	0
	14d/RT	-0.1	-0.1	-1	0	0	-1	0	0	0
	21d/RT	0	0	-1	-0.1	-0.1	-1	0	0	0
Hydrochloride	7d/RT	ND	ND	ND	-0.2	-0.2	-3	0	0	0
	14d/RT	ND	ND	ND	-0.1	-0.1	-4	0	0.5	0
	21d/RT	ND	ND	ND	-0.3	+0.3	-4	+0.4	+0.4	0

NR: not resistance

ND: no data