



Chemicals	CAS No	PVC															NITRILE												EVA Sleeve											
		GB1			G2			G3			G23			G20			PVC Sleeve			G340			G310			G600/G630			G640											
		ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class	ave.	min	class
54 Maleic acid 40%	110-16-7	>480	>480	6		↑	6		↑	6		↑	6		↑	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
55 Methanol	67-56-1		→	0	6.9	6.6	0	11.6	11.5	1	14.0	12.2	1	15.8	14.6	1	6.1	6.0	0	8.3	6.0	0	13.6	10.7	1	10.0	9.3	0	6.0	6.0	0	6.1	5.4	0						
56 Methyl acetate	79-20-9	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			
57 Methylene chloride	75-09-2	-	→	0	-	→	0	-	→	0	-	→	0	3.0	1.0	0																								
58 Methyl ethyl ketone	78-93-3	≤10	≤10	0		→	0		→	0		→	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			
59 Methyl isobutyl ketone	108-10-1	≤10	≤10	0		→	0		→	0		→	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			-	≤10	≤10	0	≤10	≤10	0			
60 Methyl isopropyl ketone	107-87-9	≤10	≤10	0		→	0		→	0		→	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			
61 N-Methyl-2-pyrrolidone	872-50-4							19.0	19.0	1	23.5	19.0	1																											
62 Nitric acid 16%	7697-37-2	>480	>480	6		↑	6		↑	6		↑	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	388.3	365.0	5	>480	>480	6			
63 Nitric acid 35%	7697-37-2	>480	>480	6		↑	6		↑	6		↑	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	429.3	386.0	5	55.0	45.0	2	>480	>480	6
64 Nitric acid 70%	7697-37-2	33.5	31.5	2	41.5	37.5	2	60.8	47.5	2	85.0	80.0	3	85.5	76.5	3	34.3	33.0	2	11.5	10.5	1	22.3	21.0	1	11.7	11.0	1	11.7	11.0	1	24.3	23.0	1						
65 n-Octane	111-65-9	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	23.6	19.6	1	22.6	15.6	1	≤10	≤10	0	279.3	178.4	4	217.2	186.3	4	>480	>480	6	>480	>480	6	>480	>480	6	≤10	≤10	0			
66 1-Octanol	111-87-5	>480	>480	6		↑	6		↑	6		↑	6	>480	>480	6	>480	>480	6	>480	>480	6				>480	>480	6			-	>480	>480	6						
67 Pentane	109-66-0	≤10	≤10	0		→	0	≤10	≤10	0	13.0	10.2	1	15.6	13.3	1	≤10	≤10	0	229.2	188.1	4				249.0	211.4	4	113.7	97.0	3	≤10	≤10	0	≤10	≤10	0			
68 1-Pentanol	71-41-0	20.4	19.0	1	49.5	46.5	2	70.1	63.5	3	118.6	99.0	3	99.3	99.3	3	41.8	35.2	1	201.2	167.5	4	163.3	135.3	4	232.9	207.6	4			-	21.7	19.4	1						
69 Perchloroethylene	127-18-4	-	→	0	-	→	0	-	→	0	-	→	0	10.0	8.0	0				Immediate	0.0	0	Immediate	0.0	0	Immediate	0.0	0	Immediate	0.0	0	4.0	2.0	0						
70 Petroleum ether	8030-30-6	4.0	2.0	0	11.0	9.0	0	20.0	16.0	1	20.0	18.0	1	20.0	18.0	1	9.0	7.0	0	>480	>480	6	195.0	147.0	4	>480	>480	6	>480	>480	6	5.0	0.0	0	>480	>480	6			
71 Phosphoric acid 85%	7664-38-2	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
72 Potassium hydroxide 50%	1310-58-3	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6				>480	>480	6	>480	>480	6	>480	>480	6			
73 1-Propanol	71-23-8	15.7	14.1	1	26.6	23.7	1	37.4	36.0	2	54.8	53.4	2	79.1	67.7	3	38.9	32.4	2	114.9	110.3	3	105.2	97.8	3	107.9	99.5	3	67.0	61.0	3	25.1	21.0	1						
74 n-Proryl acetate	109-60-4	≤10	≤10	0		→	0		→	0		→	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			-	≤10	≤10	0	≤10	≤10	0			
75 Propylene oxide	75-56-9													<1	<1	0				Immediate	0.0	0	3.0	1.0	0	3.0	1.0	0	Immediate	0.0	0	3.0	1.0	0						
76 SDS 25%	151-21-3	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
77 Sodium hypochlorite 10%	7681-52-9	>480	>480	6		↑	6		↑	6	>480	>480	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
78 Sodium hydroxide 5%	1310-73-2	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
79 Sodium hydroxide 40%	1310-73-2	↑	>480	6	>480	>480	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
80 Sodium hydroxide 50%	1310-73-2	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
81 Styrene monomer	100-42-5	-	→	0	-	→	0	-	→	0	-	→	0	7.0	5.0	0	1.7	0.0	0	3.0	1.0	0	6.0	2.0	0	7.0	5.0	0	5.0	3.0	0	2.0	1.0	0	>480	>480	6			
82 Sulfuric acid 50%	7664-93-9	>480	>480	6		↑	6		↑	6		↑	6				>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6	>480	>480	6			
83 Sulfuric acid 96%	7664-93-9	95.8	92.5	3	195.0	175.0	4	288.7	225.0	4	315.0	275.0	5	370.8	365.0	5	31.5	28.5	1	31.5	25.5	1	58.8	43.5	2	13.5	13.5	1	14.5	10.5	1	46.0	40.5	2						
84 Tetrahydrofurane	109-99-9		→	0		→	0		→	0		→	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0			
85 Toluene	108-88-3		→	0		→	0		→	0		→	0	4.5	3.0	0	1.0	1.0	0	1.7	1.0	0	3.0	3.0	0	1.7	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0	1.0	0			
86 Trichloroethylene	79-01-6	-	→	0	-	→	0	-	→	0	-	→	0	3.0	1.0	0				Immediate	0.0	0	2.0	0.0	0	Immediate	0.0	0	Immediate	0.0	0	2.3	1.0	0						
87 Unleaded petrol	-	3.0	1.0	0	9.0	7.0	0	8.0	4.0	0	15.0	13.0	1	>480	>480	6	6.0	4.0	0	91.0	89.0	3	45.0	35.0	2	60.0	52.0	2	35.0	29.0	1	4.0	2.0	0						
88 Xylene	1330-20-7	≤10	≤10	0		→	0		→	0	≤10	≤10	0	12.0	11.4	1	≤10	≤10	0	10.0	9.0	0	13.3	8.9	0	22.5	21.0	1	≤10	≤10	0	≤10	≤10	0	≤10	≤10	0			

**Breakthrough Time & Class Index**

Breakthrough Time	CLASS
≤10	0
10<	1
30<	2
60<	3
120<	4
240<	5
480<	6

**NOTICE**

These tests were performed under laboratory conditions. Therefore, the indicated permeation times do not necessarily reflect real working conditions.