

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 standard. Coloured cells with numbers and the symbol **C** are extracted from data generated by an accredited laboratory. The data in the rest of the cells correspond to estimations.



MATERIAL				Nitrile	Nitrile	Nitrile	Nitrile / Neoprene	Nitrile	Nitrile / Neoprene	Neoprene / Natural Rubber	Butyl	Nitrile	PVA	PVC / Nitrile	LLDPE
THICKNESS (MM)				0.07 mm / 2.8 mil	0.11 mm / 4.3 mil	0.125 mm / 4.9 mil	0.20 mm / 7.9 mil	N/A	0.38 mm / 15 mil	0.68 mm / 26.8 mil	0.35 mm / 13.8 mil	0.56 mm / 22 mil	N/A	N/A	0.062 mm / 2.5 mil
PRODUCT NAME / STYLE				MICROFLEX <sup>®</sup> XCEED <sup>™</sup> 93-833. XC-310	MICROFLEX <sup>®</sup> Supreno SE 93-843.SU-310	TouchNTuff <sup>®</sup> 92-500.600.605 /93-250.300.700	MICROFLEX <sup>®</sup> 93-260.360	AlphaTec <sup>®</sup> 58-530.535	AlphaTec <sup>®</sup> 53-001	AlphaTec <sup>®</sup> 87-900	AlphaTec <sup>®</sup> 38-514	AlphaTec <sup>®</sup> Solvex <sup>®</sup> 37-185.165/58-008	AlphaTec <sup>®</sup> 15-554	AlphaTec <sup>®</sup> 04-004.005	AlphaTec <sup>®</sup> 02-100
CAS	CHEMICAL NAME	%	PS												
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	100	I	<10'	10-30'	10-30'	<480'	120-240'	<480'	120-240'	<10'	>480'	240-480'	10-30'	240-480'
108-65-6	1-METHOXY-2-PROPYLACETATE	100	I	<10'	<10'	<10'	10-30'	60-120'	30-60'	10-30'	>480'	120-240'	>480'	30-60'	>480'
64-19-7	ACETIC ACID	100	I	<10'	<10'	7'	30'	42'	424'	45'	>480'	190'	<10'	139'	158'
67-64-1	ACETONE	100	I	<1'	<1'	<10'	3'	6'	12'	8'	337'	<10'	101'	5'	>480'
75-05-8	ACETONITRILE	100	I	<1'	<1'	<5'	5'	5'	78'	14'	>480'	20'	330'	35'	>480'
79-10-7	ACRYLIC ACID	100	I	<10'	<10'	<5'	30-60'	10-30'	60-120'	60-120'	>480'	120-240'	10-30'	30-60'	>480'
107-13-1	ACRYLONITRILE	100	I	<10'	<10'	<10'	3'	6'	10-30'	9'	240-480'	<10'	>480'	<10'	>480'
107-18-6	ALLYLALCOHOL	100	I	<10'	<10'	<10'	30-60'	30-60'	120-240'	30-60'	>480'	120-240'	<10'	60-120'	>480'
7664-41-7	AMMONIA, GAS	100	G	<10'	<10'	13'	10-30'	30-60'	120-240'	30-60'	>480'	240-480'	11'	<10'	>480'
1336-21-6	AMMONIUM HYDROXIDE	25	I	<1'	5'	29'	51'	288'	382'	22'	>480'	>480'	<10'	98'	27'
71-43-2	BENZENE	100	I	<10'	<10'	<10'	5'	8'	24'	<10'	9'	32'	>480'	22'	>480'
98-88-4	BENZOYL CHLORIDE	100	I	<10'	<10'	<10'	<10'	<10'	10-30'	<10'	<10'	10-30'	>480'	<10'	>480'
80-05-7	BISPHENOL A	100	S	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'
590-92-1	BROMOPROPIONIC ACID	100	S	120-240'	240-480'	240-480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'
111-76-2	BUTYLGLYCOL	100	I	10-30'	10-30'	10-30'	60-120'	120-240'	240-480'	30-60'	>480'	240-480'	120-240'	60-120'	>480'
75-15-0	CARBON DISULFIDE	100	I	<10'	<10'	<5'	1'	<10'	21'	<5'	<5'	<5'	>480'	<10'	>480'
56-23-5	CARBON TETRACHLORIDE	100	I	<10'	<10'	<10'	39'	60-120'	120-240'	<10'	10-30'	120-240'	>480'	30-60'	240-480'
67-66-3	CHLOROFORM	100	I	<10'	<10'	<10'	3'	<10'	5'	<10'	<10'	<10'	>480'	<10'	17'
8007-45-2	COAL TAR	100	I	10-30'	240-480'	240-480'	>480'	>480'	>480'	240-480'	>480'	>480'	>480'	120-240'	>480'
108-93-0	CYCLOHEXANOL	100	I	10-30'	60-120'	120-240'	>480'	>480'	240-480'	>480'	>480'	>480'	240-480'	240-480'	>480'
108-94-1	CYCLOHEXANONE	100	I	<10'	<10'	<5'	10'	24'	30-60'	30-60'	>480'	113'	>480'	30-60'	>480'
84-74-2	DIBUTYLPHthalate	100	I	30-60'	60-120'	120-240'	240-480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'
75-09-2	DICHLOROMETHANE	100	I	<10'	<10'	<10'	2'	<10'	5'	<10'	<5'	<10'	>480'	15'	65'
68334-30-5	DIESEL LS	100	I	240-480'	>480'	>480'	>480'	>480'	>480'	30-60'	30-60'	>480'	>480'	>480'	>480'
109-89-7	DIETHYLAMINE	100	I	<1'	1'	1'	6'	28'	47'	<5'	<5'	55'	9'	30'	>480'
110-85-0	DIETHYLENEDIAMINE	100	S	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'
68-12-2	DIMETHYLFORMAMIDE	100	I	<10'	2'	<5'	9'	18'	30-60'	51'	>480'	43'	13'	62'	>480'
67-68-5	DIMETHYLSULFOXIDE	100	I	4'	10'	5'	93'	120-240'	240-480'	>480'	>480'	240-480'	<10'	10-30'	>480'
64742-47-8	DISTILLATE (PETROLEUM), HYDROTREATED LIGHT	100	I	>480'	>480'	>480'	>480'	>480'	>480'	30-60'	10-30'	>480'	>480'	>480'	>480'
64-17-5	ETHANOL	100	I	2'	5'	<10'	130'	120-240'	240-480'	30-60'	>480'	>480'	10-30'	107'	>480'
141-43-5	ETHANOLAMINE	100	I	10-30'	60-120'	60-120'	120-240'	>480'	>480'	60-120'	>480'	>480'	240-480'	>480'	>480'
64-17-5	ETHYL ALCOHOL	50	I	10-30'	30-60'	30-60'	>480'	>480'	>480'	120-240'	>480'	>480'	<10'	240-480'	>480'
110-80-5	ETHYL GLYCOL	100	I	<10'	<10'	5'	30-60'	60-120'	120-240'	10-30'	>480'	240-480'	68'	30-60'	>480'
141-78-6	ETHYL ACETATE	100	I	<1'	<1'	1'	5'	15'	22'	9'	55'	18'	>480'	<10'	>480'
64-17-5	ETHYL ALCOHOL	96	I	<10'	<10'	<10'	120-240'	120-240'	240-480'	30-60'	>480'	>480'	10-30'	60-120'	>480'
111-15-9	ETHYL GLYCOL ETHYL ETHER ACETATE	100	I	<10'	<10'	30-60'	30-60'	10-30'	60-120'	>480'	129'	>480'	30-60'	30-60'	>480'
107-21-1	ETHYLENE GLYCOL	100	I	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	120-240'	>480'	>480'
50-00-0	FORMALDEHYDE	37	I	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	<10'	>480'	>480'
64-18-6	FORMIC ACID	98	I	<10'	<10'	<10'	20'	10-30'	30-60'	108'	240-480'	30-60'	<10'	120-240'	>480'
96-48-0	GAMMA-BUTYROLACTONE	100	I	<10'	<10'	<10'	<10'	10-30'	30-60'	60-120'	>480'	30-60'	120-240'	10-30'	>480'
8006-61-9	GASOLINE	100	I	<10'	<10'	84'	120-240'	120-240'	240-480'	7'	10-30'	240-480'	>480'	60-120'	>480'
111-30-8	GLUTARALDEHYDE, 50%	50	I	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	>480'	<10'	>480'	>480'
142-82-5	HEPTANE	100	I	>480'	>480'	>480'	>480'	>480'	>480'	10-30'	5'	>480'	>480'	200'	>480'
999-97-3	HEXAMETHYLDISILAZANE	100	I	10-30'	60-120'	60-120'	>480'	>480'	>480'	>480'	240-480'	>480'	>480'	60-120'	>480'
7647-01-0	HYDROCHLORIC ACID	37	I	15'	90'	51'	>480'	>480'	>480'	>480'	>480'	>480'	<10'	>480'	>480'
7664-39-3	HYDROFLUORIC ACID	49	I	<10'	<10'	<5'	93'	48'	120-240'	>480'	>480'	120-240'	<10'	240-480'	>480'
7722-84-1	HYDROGEN PEROXIDE	30	I	30'	201'	33'	446'	>480'	>480'	>480'	368'	>480'	<10'	>480'	>480'
540-84-1	ISOOCTANE	100	I	240-480'	>480'	>480'	>480'	>480'	>480'	30-60'	10-30'	>480'	>480'	240-480'	>480'
78-59-1	ISOPHORONE	100	I	<10'	10-30'	10-30'	60-120'	120-240'	120-240'	30-60'	>480'	240-480'	>480'	<10'	>480'
67-63-0	ISOPROPANOL	100	I	109'	11'	117'	380'	>480'	>480'	123'	>480'	>480'	72'	155'	>480'
67-63-0	ISOPROPANOL	70	I	>480'	39'	178'	240-480'	>480'	>480'	120-240'	>480'	>480'	<10'	120-240'	>480'
108-10-1	METHYL ISOBUTYL KETONE	100	I	<10'	<10'	1'	<10'	<10'	10-30'	9'	69'	30-60'	240-480'	10-30'	>480'
96-33-3	METHYL ACRYLATE	100	I	<10'	<10'	<10'	<10'	<10'	10-30'	<10'	60-120'	10-30'	120-240'	<10'	>480'
67-56-1	METHYL ALCOHOL	100	I	1'	2'	1'	22'	56'	264'	33'	>480'	94'	5'	150'	>480'
78-93-3	METHYL ETHYL KETONE	100	I	<1'	<1'	<5'	3'	7'	15'	7'	76'	10-30'	120-240'	20'	>480'
80-62-6	METHYL METHACRYLATE	100	I	<10'	<10'	2'	<10'	<10'	10-30'	<10'	30-60'	>480'	>480'	>480'	>480'
1634-04-4	METHYL TERT-BUTYL ETHER	100	I	<10'	10-30'	14'	60-120'	120-240'	240-480'	11'	>480'	>480'	>480'	10-30'	>480'
74-89-5	METHYLAMINE, 40% AQUEOUS SOLUTION	40	I	<10'	<10'	<10'	10-30'	30-60'	60-120'	60-120'	>480'	240-480'	<10'	120-240'	>480'
8012-95-1	MINERAL OIL	100	I	>480'	>480'	>480'	>480'	>480'	>480'	30-60'	10-30'	>480'	>480'	>480'	>480'
872-50-4	N-METHYL-2-PYRROLIDONE	100	I	<10'	>480'	>480'	7'	10-30'	10-30'	26'	>480'	30-60'	<10'	<10'	>480'
8030-30-6	NAPHTHA	100	I	240-480'	240-480'	240-480'	>480'	>480'	>480'	<10'	<10'	>480'	>480'	120-240'	>480'
64742-82-1	NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	100	I	60-120'	60-120'	60-120'	60-120'	120-240'	240-480'	10-30'	<10'	240-480'	>480'	60-120'	>480'
64742-49-0	NAPHTHA, PETROLEUM, HYDROTREATED LIGHT	100	I	>480'	>480'	>480'	>480'	>480'	>480'	10-30'	<10'	>480'	>480'	120-240'	>480'
7697-37-2	NITRIC ACID	65	I	<10'	<10'	<10'	30'	73'	>480'	>480'	240-480'	>480'	<10'	261'	>480'
7697-37-2	NITRIC ACID	70	I	2'	4'	<5'	39'	53'	>480'	235'	>480'	60-120'	<10'	60-120'	>480'
98-95-3	NITROBENZENE	100	I	<10'	<10'	60-120'	30-60'	60-120'							