

# diX Barrier properties against chemicals, gases, and corrosion

Swelling (Thickness change, %) on immersion in various chemicals at 10 - 16µm film thickness. (Typical values only)

	Immersion	N	D	C	HR	SR	NR	SF
Hydrochloric acid 10 %	75 °C / 120 min	+ 0.08	+ 0.21	- 0.28	- 0.45	-0.30	-	-
Sulfuric acid 10 %	75 °C / 120 min	+ 0.07	+ 0.14	- 0.28	- 0.38	- 0.43	-	-
Nitric acid 10 %	75 °C / 120 min	+ 0.15	+ 0.21	- 0.28	- 0.45	- 0.28	+ 0.09	0.00
Hydrofluoric acid 10 %	50 °C / 120 min	+ 0.37	+ 0.27	+ 0.09	+ 0.06	0.00	-	-
NaOH 10 %	75 °C / 120 min	+ 0.15	+ 0.14	- 0.28	- 0.44	- 0.61	-	-
NH <sub>4</sub> OH 10 %	75 °C / 120 min	+ 0.15	+ 0.22	- 0.38	- 0.26	- 0.37	-	-
H <sub>2</sub> O <sub>2</sub>	50 °C / 120 min	0.00	+ 0.17	0.00	- 0.06	- 0.07	-	-
n-Octane	75 °C / 120 min	+ 0.29	+ 0.39	+ 0.28	+ 0.32	+ 0.36	- 0.20	0.00
Toluene	75 °C / 120 min	+ 0.30	+ 3.69	+ 1.32	+ 1.33	+ 1.15	- 0.09	+ 2.3
Monochlorobenzene	75 °C / 120 min	+ 0.37	+ 3.47	+ 1.04	+ 0.98	+ 1.38	-	-
Pyridine	75 °C / 120 min	+ 0.29	+ 3.41	+ 0.28	+ 0.59	-0.07	-	-
ethanol	75 °C / 120 min	-	-	+ 0.4	-	+ 0.36	-	-
ethanol/H <sub>2</sub> O (93/7 vol%)	75 °C / 120 min	-	-	+ 0.34	-	- 0.43	-	-
2-Propanol (IPA)	50 °C / 120 min	+ 0.07	0.00	0.00	- 0.06	+ 0.07	-	- 0.08
Acetone	50 °C / 120 min	+ 0.15	+ 2.38	- 0.09	- 0.13	- 0.22	-	-
Gasoline	60 °C / 120 min	-	-	+ 1.87	-	+ 1.49	-	+ 0.09
Gasoline/Methanol (85/15 vol%)	75 °C / 120 min	+ 0.37	+2.36	+ 2.17	+ 2.35	+ 2.05	+ 0.37	+ 0.24
Gasoline/ethanol (15/85 vol%)	75 °C / 120 min	-	-	+ 0.34	-	+ 0.21	-	+0.35

0 indicates no change, + indicates an increase of thickness, - indicates a decrease of thickness