



International Products

C O R P O R A T I O N

201 CONNECTICUT DRIVE • BURLINGTON, NJ 08016 • USA

TEL: 609-386-8770 • FAX: 609-386-8438 • www.incol.com

RUBBER SLIDE™

Makes *Rubber Slide* Like Butter

ELASTOMER COMPATIBILITY DATA

Room Temperature

PLASTIC	PROPERTY	1 Day, % Δ		2 Days, % Δ		10 Days, % Δ	
		Rubber Slide	Tap Water	Rubber Slide	Tap Water	Rubber Slide	Tap Water
BUNA N	%Δ Mass	+ 0.5	+ 0.1	+ 0.7	+ 0.1	+ 1.4	+ 0.2
	%Δ Hardness	+ 1.7	+ 2.4	+ 8.9	+ 6.4	+ 0.7	+ 1.7
	%Δ Swell	- 0.2	+ 0.1	- 0.5	- 0.7	+ 0.1	- 0.8
BUTYL	%Δ Mass	0.0	0.0	+ 0.1	+ 0.1	+ 0.2	+ 0.1
	%Δ Hardness	+ 3.4	- 0.6	+ 0.6	0.0	+ 0.8	- 0.3
	%Δ Swell	- 0.7	+ 0.2	- 0.6	- 0.4	- 0.8	- 0.2
ECH	%Δ Mass	+ 1.6	+ 0.4	+ 2.6	+ 0.3	+ 5.4	+ 1.4
	%Δ Hardness	+ 0.6	+ 8.8	- 2.1	+ 10.4	- 4.4	+ 11.4
	%Δ Swell	+ 0.9	+ 0.3	+ 0.9	+ 0.2	+ 2.2	+ 0.8
EPDM	%Δ Mass	0.0	0.0	+ 0.1	0.0	+ 0.2	+ 0.1
	%Δ Hardness	+ 0.6	- 2.4	0.0	- 5.2	+ 3.0	- 6.0
	%Δ Swell	- 0.1	- 0.8	- 0.4	- 1.0	- 0.6	- 0.8
NATURAL GUM RUBBER	%Δ Mass	+ 0.2	+ 0.1	+ 0.2	+ 0.1	+ 0.7	+ 0.2
	%Δ Hardness	+ 2.8	+ 3.2	- 2.5	- 0.8	+ 4.6	- 3.7
	%Δ Swell	- 0.1	0.0	+ 0.5	- 0.3	+ 0.3	+ 0.1
NEOPRENE	%Δ Mass	+ 0.5	+ 0.1	+ 0.8	+ 0.1	+ 2.5	+ 0.5
	%Δ Hardness	+ 4.3	- 2.6	+ 2.2	- 4.2	- 2.4	- 7.8
	%Δ Swell	+ 0.3	+ 0.1	+ 0.1	- 0.5	+ 1.3	- 0.1
SBR	%Δ Mass	+ 0.2	+ 0.1	+ 0.2	+ 0.1	+ 0.5	+ 0.2
	%Δ Hardness	- 1.0	+ 4.8	+ 0.8	+ 1.8	- 2.5	+ 2.2
	%Δ Swell	+ 0.1	+ 0.1	0.0	+ 0.3	+ 0.3	+ 0.1
SILICONE	%Δ Mass	+ 0.5	0.0	+ 0.7	0.0	+ 1.6	0.0
	%Δ Hardness	+ 6.7	+ 1.4	+ 10.8	+ 0.3	+ 6.4	- 0.7
	%Δ Swell	- 0.3	+ 0.4	+ 2.3	+ 0.7	+ 6.8	+ 0.6
VITON	%Δ Mass	+ 0.1	0.0	+ 0.1	+ 0.1	+ 0.2	+ 0.1
	%Δ Hardness	- 0.9	+ 1.7	- 1.3	- 0.2	- 0.1	- 0.2
	%Δ Swell	- 0.1	- 0.1	+ 0.6	0.0	+ 0.7	+ 0.6

KEY – MATERIALS

ECH – Epichlorohydrin

EPDM – Ethylene Propylene Diene Monomer

SBR – Styrene Butadiene

METHOD - Modified version of ASTM D471

Mass: Analytical Balance, 0.0001 grams,

Hardness: Shore A Durometer, 1 – 100 HA; CoV – 2.0%

Swell: Mitutoyo Micrometer, 0.001 mm, CoV – 0.11%

CONCLUSION: Compared to the tap water control samples, Rubber Slide has no significant effect on the changes to mass and swell. Changes were noticed in several hardness values, but these results are discounted due to the higher Coefficient of Variation (2.0%) inherent with the test procedure and the elastomer evaluated.

Customers are encouraged to conduct their own tests before using Rubber Slide.