

Tetraethoxysilane (TEOS) compatibility with AFLAS®



Test method Soaked into the fluid at R.T. for 72 hours.
Test fluid Tetraethoxysilane (TEOS)

Test piece AFLAS® 100S (specific formulation)

Formulation	AFLAS® 100S	100
	MT-Carbon(N990)	20
	TAIC WH-60*	17
	Perkadox® 14**	2
	Calcium Stearate	1

(phr)

Cure Conditions Press molded at 170C for 20min
Post cured at 200C for 4h

Properties (before test)	AFLAS® 100S
Tensile strength [MPa]	26.1
Tensile Elongation [%]	177
Hardness [shore-A]	76

TEOS compatibility R.T. for 72 hours	AFLAS® 100S
Change of Tensile Strength [%]	-3.5
Change of Tensile Elongation [%]	0.6
Change in Hardness [points]	1.6
Volume change [%]	0

* Triallylisocyanurate 60% active content powder (diluted by SiO₂). TAIC WH-60 is a grade of Nippon Kasei.

** 1,3-bis(t-butylperoxy)-diisopropylbenzene. Perkadox® is a registered trademark of Akzo Nobel Chemicals B.V.