

Acetic acid compatibility with AFLAS®



Test method Soaked into the fluid at room temperature for 168 hours
Test fluid Acetic acid
Test piece AFLAS® 100S

Formulation	AFLAS® 100S	100
	MT-Carbon(N990)	20
	TAIC*	5
	Perkadox® 14**	1
	Sodium Stearate	1

(phr)

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

Properties (before test)	AFLAS® 100S	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	24	17	24
Tensile Elongation [%]	270	270	370
Hardness [shore-A]	65	73	67

R.T. acetic acid compatibility r.t. for 168 hours	AFLAS® 100S	FKM (polyol cure)	FKM (peroxide cure)
Change of Tensile Strength [%]	-47	-61	-43
Change of Tensile Elongation [%]	-26	-45	-12
Change in Hardness [points]	-20	-27	-16
Volume change [%]	25	135	32

* Triallylisocyanurate

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