

1% acetic acid compatibility with AFLAS®

Test method Soaked into the fluid at 40°C for 72h & 168h and 80°C for 72h & 168h.
Test fluid 1% acetic acid
Test piece AFLAS® 150P

Formulation	AFLAS® 150P	100
	MT-Carbon(N990)	25
	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® 150P	FKM
Tensile strength [MPa]	18	13
Tensile Elongation [%]	305	250
Hardness [shore-A]	66	71

1% acetic acid compatibility 40 °C for 72 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	0	-1
Change of Tensile Elongation [%]	-1	0
Change in Hardness [points]	2	-3
Volume change [%]	0.6	11.3

1% acetic acid compatibility 40 °C for 168 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	0	-8
Change of Tensile Elongation [%]	6	-2
Change in Hardness [points]	0	-15
Volume change [%]	0.6	17.7

1% acetic acid compatibility 80 °C for 72 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-11	-10
Change of Tensile Elongation [%]	-22	-14
Change in Hardness [points]	2	-10
Volume change [%]	1.0	33.8

1% acetic acid compatibility 80 °C for 168 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-10	-22
Change of Tensile Elongation [%]	-15	-32
Change in Hardness [points]	0	-18
Volume change [%]	1.40	50.0