

NMP compatibility with AFLAS®



Test method Soaked into the fluid at 40°C for 70 hours.
Test fluid NMP (N-Methyl Pyrrolidone)
Test piece AFLAS® 100S (standard formulation)

Formulation	AFLAS® 100S	100
	MT-Carbon(N990)	30
	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	ref. 2-FKM(polyol)	ref: 3-FKM(peroxide)
Tensile strength [MPa]	20	13	20
Tensile Elongation [%]	270	180	330
Hardness [shore-A]	72	76	62

NMP compatibility 40 °C for 70 hours	AFLAS® 100S	ref. 2-FKM(polyol)	ref: 3-FKM(peroxide)
Change of Tensile Strength [%]	-7	Not measurable	Not measurable
Change of Tensile Elongation [%]	-5	Not measurable	Not measurable
Change in Hardness [points]	-10	-37	-29
Volume change [%]	9.0	284	185

* Triallylisocyanurate

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