50% NaOH compatibility with AFLAS®

Test method Soaked into the fluid at 70℃ for 168h & 720h.
Test fluid 50% NaOH

Test piece AFLAS® 200P (standard formulation)

Formulation

AFLAS® 200P	100
MT-Carbon(N990)	25
TAIC	5
Parkadox® 14	1
MgO (highly active)	3
Sodium Stearate	1

(phr)

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

Properties (before test)	AFLAS® 200P	2-FKM	3-FKM
Tensile strength [MPa]	16.1	14.0	19.1
Tensile Elongation [%]	260	173	290
Hardness [shore-A]	66	86	68

50%NaOH compatibility 70 ℃ for 168 hours	AFLAS® 200P	2-FKM	3-FKM
Chang of Tensile Strength [%]	**6**	-20	9
Change of Tensile Elongation [%]	**2**	-3	10
Change in Hardness [points]	**0**	-4	-1
Volume change [%]	**-0.2**	-7.4	-1.8

50%NaOH compatibility 70 ℃ for 720 hours	AFLAS® 200P	2-FKM	3-FKM
Chang of Tensile Strength [%]	**6**	-64	-8
Change of Tensile Elongation [%]	**2**	-16	2
Change in Hardness [points]	**0**	-12	-2
Volume change [%]	**-0.3**	-33.9	-7.2

* Triallylisocyanurate

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