Methanol compatibility with AFLAS®

Test method Soaked into the fluid at 40℃ for 70 hours & 168 hours.

Test fluid Methanol

Test piece AFLAS® 150P (standard formulation)

Formulation

AFLAS® 150P	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® 150P	ref. 2-FKM(polyol)
Tensile strength [MPa]	**17**	14
Tensile Elongation [%]	**280**	212
Hardness [shore-A]	**70**	78

Methanol compatibility 40 ℃ for 70 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Chang of Tensile Strength [%]	**-13**	-62
Change of Tensile Elongation [%]	**0**	-51
Change in Hardness [points]	**-4**	78
Volume change [%]	**1**	48

Methanol compatibility 40 ℃ for168 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Chang of Tensile Strength [%]	**-20**	-50
Change of Tensile Elongation [%]	**-9**	-44
Change in Hardness [points]	**-4**	-24
Volume change [%]	**1**	69

* Triallylisocyanurate

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