

KOH 48% aq compatibility with AFLAS®



Test method Soaked into the fluid at 90°C for 168h, 700h & 4200h.
Test fluid KOH 48% aq
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
Tensile strength [MPa]	14
Tensile Elongation [%]	412
Hardness [shore-A]	67

KOH 48% aq compatibility 90 °C for 168 hours	AFLAS® 150P
Change of Tensile Strength [%]	6
Change of Tensile Elongation [%]	-14
Change in Hardness [points]	1
Volume change [%]	1.8

KOH 48% aq compatibility 90 °C for 700 hours	AFLAS® 150P
Change of Tensile Strength [%]	8
Change of Tensile Elongation [%]	-14
Change in Hardness [points]	-3
Volume change [%]	1.3

KOH 48% aq compatibility 90 °C for 4200 hours	AFLAS® 150P
Change of Tensile Strength [%]	0
Change of Tensile Elongation [%]	-11
Change in Hardness [points]	2
Volume change [%]	1

* Triallylisocyanurate

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