

Ethylene Glycol + 2-MBT compatibility with AFLAS[®]



Test method Soaked into the fluid at 150C for 168 hours.
Test fluid Ethylene Glycol 30% aq + 0.5 % 2-Mercaptobenzothiazole sodium salt (Sanbit N-G)
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
Tensile Strength [MPa]	21.0
Tensile Elongation [%]	233
Hardness [shore-A]	72

Ethylene Glycol + 2-MBT compatibility 150C for 168 hours	AFLAS [®] 100S
Change of Tensile Strength [%]	-8
Change of Tensile Elongation [%]	15
Change in Hardness [points]	-2
Volume change [%]	6

* Triallylisocyanurate

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