

Sea water compatibility with AFLAS[®]



Test method Soaked into Sea water at 100C for 2500 hours.
Test fluid Sea water (Japan)
Test piece AFLAS[®] 100S (standard formulation)
 AFLAS[®] 150P (standard formulation)

Formulation

AFLAS [®] 100S or 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 [®] 100S	AFLAS [®] 150P
Tensile strength [MPa]	21.0	18.0
Tensile Elongation [%]	230	250
Hardness [shore-A]	72	73

Sea water compatibility 100 °C for 500 hours	AFLAS [®] 100S	AFLAS [®] 150P
Change of Tensile strength [%]	-3	-5
Change of Tensile Elongation [%]	13	10
Change in Hardness [points]	-3	-2
Volume change [%]	1.3	1.5

Sea water compatibility 100 °C for 1000 hours	AFLAS [®] 100S	AFLAS [®] 150P
Change of Tensile strength [%]	-2	-5
Change of Tensile Elongation [%]	12	8
Change in Hardness [points]	-3	-5
Volume change [%]	0.8	1.3

Sea water compatibility 100 °C for 2500 hours	AFLAS [®] 100S	AFLAS [®] 150P
Volume change [%]	0.7	0.8

* Triallylisocyanurate

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