

Trimethyl Phosphite compatibility with AFLAS®



Test method Soaked into the fluid at room temperature for 72 hours.
Test fluid Trimethyl Phosphite
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]	20
Tensile Elongation [%]	230
Hardness [shore-A]	72

Trimethyl Phosphite compatibility R.T. for 72 hours	AFLAS® 100S
Change of Tensile Strength [%]	-52.2
Change of Tensile Elongation [%]	-20.3
Change in Hardness [points]	-16
Volume change [%]	25.4

* Triallylisocyanurate

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