

Ethylene Glycol + PBT compatibility with AFLAS®



Test method Soaked into the fluid at 150C for 168 hours.
Test fluid Ethylene Glycol 30% aq + 0.5 % 3-(2-Benzothiazolytio)propionic acid (Sanbit PBT)
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]	18.0
Tensile Elongation [%]	246
Hardness [shore-A]	73

Ethylene Glycol + PBT compatibility 150C for 168 hours	AFLAS® 150P
Change of Tensile Strength [%]	-12
Change of Tensile Elongation [%]	16
Change in Hardness [points]	-1
Volume change [%]	8

* Triallylisocyanurate

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