

Automotive Brake Fluid compatibility with AFLAS®



Test method Soaked into the fluid at 150C for 200h.
Test fluid Toyota brake fluid
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	ref. 2-FKM(polyol)	ref. 3-FKM(peroxide)
Tensile strength [MPa]	21	13	24
100% Modulus [MPa]	6.1	7.5	2.9
Tensile Elongation [%]	257	197	354
Hardness [shore-A]	70	79	67
Specific gravity	1.58	1.83	1.86

Brake Fluid compatibility 150 °C for 200 hours	AFLAS® 150P	ref. 2-FKM(polyol)	ref. 3-FKM(peroxide)
Tensile strength [MPa]	17	3	13
100% Modulus [MPa]	4.1	NA	2.2
Tensile Elongation [%]	249	70	298
Hardness [shore-A]	66	47	62
Change of Tensile strength [%]	-15	-77	-46
Change of 100% Modulus [%]	-33	NA	-27
Change of Tensile Elongation [%]	-3	-64	-16
Change in Hardness [points]	-4	-32	-5
Volume change [%]	7	42	4

* Triallylisocyanurate

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