

ATF (Dexron VI) compatibility with AFLAS®

Test method Soaked into the fluid at 175°C for 168h, 336h, 504h & 1008h.
Test fluid ATF (Dexron VI)
Test piece AFLAS® 100S (standard formulation)

Formulation

AFLAS® 100S	100
MT-Carbon(N990)	30
TAIC*	5
Parkadox® 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 [%]	259
Hardness [shore-A]	70

Dexron VI compatibility 175 °C for 168 hours	AFLAS® 100S
Change of Tensile Strength [%]	-7
Change of Tensile Elongation [%]	14
Change in Hardness [points]	-5
Volume change [%]	2

Dexron VI compatibility 175 °C for 336 hours	AFLAS® 100S
Change of Tensile Strength [%]	-7
Change of Tensile Elongation [%]	12
Change in Hardness [points]	-6
Volume change [%]	8

Dexron VI compatibility 175 °C for 504 hours	AFLAS® 100S
Change of Tensile Strength [%]	-13
Change of Tensile Elongation [%]	6
Change in Hardness [points]	-5
Volume change [%]	4

Dexron VI compatibility 175 °C for 1008 hours	AFLAS® 100S
Change of Tensile Strength [%]	-9
Change of Tensile Elongation [%]	11
Change in Hardness [points]	-3
Volume change [%]	11

* Triallylisocyanurate

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