

E85 compatibility with AFLAS®



Test method Soaked into the fluid at 70°C for 168h and 700h.
Test fluid E85 (Fule C / Ethanol = 15 / 85 vol%)
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	ref. 2-FKM(polyol)
Tensile strength [MPa]	22	17
Tensile Elongation [%]	239	216
Hardness [shore-A]	71	71

E85 compatibility 70°C for 168 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-33	-51
Change of Tensile Elongation [%]	0	-26
Change in Hardness [points]	-14	-13
Volume change [%]	14	23

E85 compatibility 70 °C for 700 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-31	-49
Change of Tensile Elongation [%]	4	-26
Change in Hardness [points]	-19	-14
Volume change [%]	14	23

* Triallylisocyanurate

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