

M85 compatibility with AFLAS®



Test method Soaked into the fluid at 70°C for 168h, 720h & 1000h.
Test fluid M85 (Fule C / Methanol = 15 / 85 vol%)
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)
Tensile strength [MPa]	13	16
Tensile Elongation [%]	362	218
Hardness [shore-A]	67	67

M85 compatibility 70°C for 168 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-35	-61
Change of Tensile Elongation [%]	6	-41
Change in Hardness [points]	-17	-14
Volume change [%]	15	14

M85 compatibility 70°C for 720 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-36	-60
Change of Tensile Elongation [%]	1	-25
Change in Hardness [points]	-18	-14
Volume change [%]	15	13

M85 compatibility 70°C for 1000 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-37	-67
Change of Tensile Elongation [%]	3	-41
Change in Hardness [points]	-19	-17
Volume change [%]	15	13

* Triallylisocyanurate

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