

Tecnoflon® FOR M1

Additive

Tecnoflon® FOR M1 is a Bisphenol-AF masterbatch containing 50 % of the active ingredient. Bisphenol-AF is used as cross-linker for FKM.

Tecnoflon® FOR M1 is used in combination with Tecnoflon® FOR M2 to cross-link base FKM polymers that have not curing system incorporated. If necessary, it can be also used to increase the cross-link density of polymers with curing system already incorporated.

Recommended levels of Tecnoflon® FOR M1 normally vary according to the desired cross-link density. Typical values are from 1.5 to 5 phr. The increase of Tecnoflon® FOR M1 level in the compound reduces the cure rate, thus the accelerator Tecnoflon® FOR M2 level must be adjusted accordingly.

Handling and safety

Normal care and precautions should be taken to avoid skin contact, eye contact and breathing of fumes. Smoking is prohibited in working areas. Wash hands before eating or smoking. For complete health and safety information, please refer to the safety data sheet.

Effect of varying Tecnoflon® FOR M1

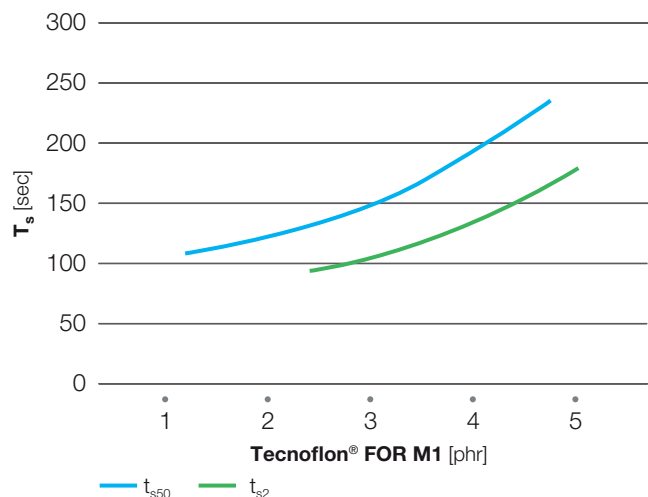
Test Compound	Typical Value	Unit	Test Method
Tecnoflon® Copolymer	100	phr	
Tecnoflon® FOR M1	As shown	phr	
Tecnoflon® FOR M2	1.5	phr	
MgO-DE	3	phr	
Ca(OH) ₂	6	phr	
N-990 MT Carbon Black	30	phr	
Carnauba Wax	0.5	phr	

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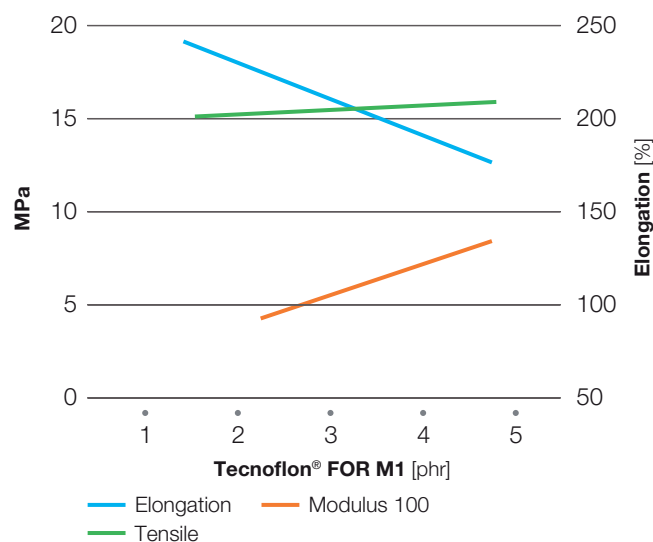
Effect of varying quantity of Tecnoflon® FOR M1 on t_{s2} and t_{s50}

run on Monsanto rheometer 100cpm, 180 °C, arc 5°
phr Tecnoflon® FOR M2 = 1.5



Effect of varying quantity of Tecnoflon® FOR M1 on tensile, modulus and elongation

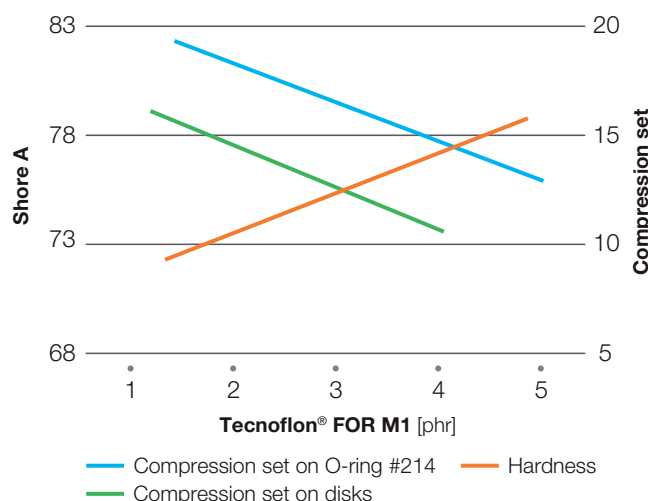
phr Tecnoflon® FOR M2 = 1.5



Effect of varying quantity of Tecnoflon® FOR M1 on hardness and compression set

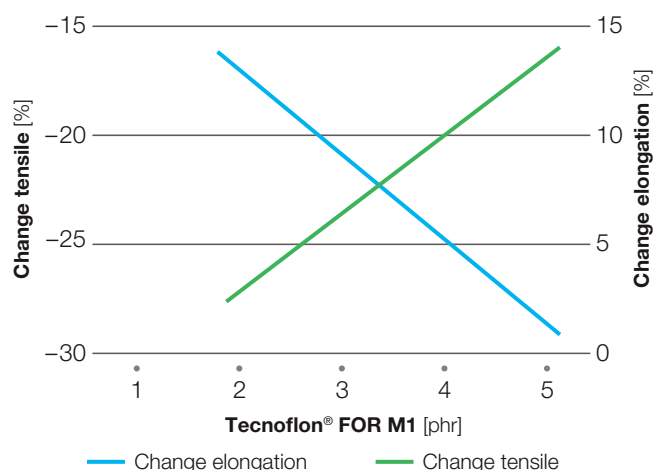
phr Tecnoflon® FOR M2 = 1.5

Compression set conditions: 70 h at 200 °C



Effect of varying quantity of Tecnoflon® FOR M1 on change tensile and elongation after aging 70h at 275°C

phr Tecnoflon® FOR M2 = 1.5



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