

Tecnoflon® N 935

Raw Copolymer

Tecnoflon® N 935 is a medium high viscosity fluoroelastomer copolymer. Tecnoflon® N 935 is intended as a general purpose fluoroelastomer. It can be blended with other polymers of the Tecnoflon® family to meet specific requirements. Tecnoflon® N 935 does not contain curatives: therefore the proper levels of Tecnoflon® FOR M1 and Tecnoflon® FOR M2 must be added to achieve the required properties. It can be also cured with diamine based systems.

Some of the unique properties of Tecnoflon® N 935 are:

- Excellent compression set
- Lack of mould fouling
- Superior extrusion behaviour
- Superior mould flow
- Excellent mould release
- Compliant to FDA 21, CFR 177.2600

Tecnoflon® N 935 can be used for compression moulding of O-rings, seals, gaskets and other items. Tecnoflon® N 935 can be mixed using typical fluoroelastomers compounding ingredients and mixing can be accomplished with two roll mills or internal mixers. Compounds based on Tecnoflon® N 935 can be dispersed in solvents for coating applications.

Tecnoflon® N 935 can be extruded into hoses or profiles and can be calendered to make sheet stocks or belting. Finished goods can be produced by a variety of rubber processing methods.

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 material safety data sheet.

Basic characteristics of the raw polymer are as follows

Property	Typical Value	Unit	Test Method
ML (1+10') at 121 °C	62	MU	ASTM D1646
Fluorine content	66	%	Solvay Internal Method – NMR
Specific gravity	1.81	g/cm ³	ASTM D792
Colour	Translucent		
Packaging / Form	Slabs		
Solubility	Ketones and esters		

Typical properties

Test Compound	Typical Value	Unit	Test Method
Tecnoflon® N 935	100	phr	
Tecnoflon® FOR M1	4	phr	
Tecnoflon® FOR M2	1.5	phr	
MgO–DE	3	phr	
Ca(OH) ₂	6	phr	
N-990 MT Carbon Black	30	phr	

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Property	Typical Value	Unit	Test Method
Mooney viscosity ML (1+10') at 121 °C	97	MU	ASTM D1646
Mooney Scorch MS 135 °C			ASTM D1646
MV	43	MU	
t ₁₅	27.6	min	
ODR 12 min at 177 °C arc 3°			ASTM D2084
Minimum torque	17.8	lb·in	
Maximum torque	125	lb·in	
t _{s2}	2.2	min	
t' ₅₀	3.5	min	
t' ₉₀	3.9	min	
MDR 6 min at 177 °C arc 0.5°			ASTM D6601
Minimum torque	2.08	lb·in	
Maximum torque	24.7	lb·in	
t _{s2}	1.3	min	
t' ₅₀	1.7	min	
t' ₉₀	2.5	min	
Press cure: 10 min at 170 °C, post cure: (8+16) h at 250 °C			
100 % Modulus	7.5	MPa	ASTM D412C
Tensile strength	18.5	MPa	
Elongation at break	185	%	
Hardness	75	ShoreA	ASTM D2240
Compression set			ASTM D395
25 % deformation, 70 h at 200 °C			method B
O-ring #214	13	%	
6 mm buttons	10	%	

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