

Tecnoflon® FOR 9383

Cure Incorporated Terpolymer

Tecnoflon® FOR 9383 is a medium-high viscosity cure incorporated fluoroelastomer terpolymer (FKM) with 68.5% fluorine content. Tecnoflon® FOR 9383 is well suited for all applications requiring better chemical resistance and/or long term heat resistance compared to fluoroelastomer copolymers and in any application requiring adhesion to metal. Tecnoflon® FOR 9383 contains proprietary cure system providing superior processability for fast cycles and scorch safety.

Some of the basic properties of Tecnoflon® FOR 9383 are:

- Very good processability
- Excellent chemical resistance
- Good hot tear resistance
- Good heat resistance
- Good bonding to metal
- Very good scorch safety

Tecnoflon® FOR 9383 can be used for compression, injection and transfer moulding of shaft seals, valve stem seals, gaskets or any item requiring excellent chemical resistance. Tecnoflon® FOR 9383 can be combined with the cure system and other typical fluoroelastomer compounding ingredients. Mixing can be accomplished with two roll mills or internal mixers.

Tecnoflon® FOR 9383 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	60	MU	ASTM D1646
Fluorine content	68.5	%	Solvay Internal Method – NMR
Specific gravity	1.86	g/cm ³	ASTM D792
Colour	off white		
Packaging/Form	Slabs		
Solubility	Ketones and esters		

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Typical properties

Test Compound	Typical Value	Unit	Test Method
Tecnoflon® FOR 9383	100	phr	
MgO-DE	3	phr	
Ca(OH) ₂	6	phr	
N-990 MT Carbon Black	30	phr	

Property	Typical Value	Unit	Test Method
Mooney viscosity ML (1+10') at 121 °C	92	MU	ASTM D1646
Mooney Scorch MS 135 °C			ASTM D1646
MV	37	MU	
t ₁₅	30	min	
MDR 6 min at 177 °C arc 0.5 °			ASTM D6601
Minimum torque	1.9	lb·in	
Maximum torque	18.5	lb·in	
t _{s2}	1.3	min	
t' ₅₀	1.6	min	
t' ₉₀	2.3	min	
Press cure: 10 min at 170 °C, post cure: (8+16) h at 250 °C			
100 % Modulus	4.6	MPa	ASTM D412C
Tensile strength	16.8	MPa	
Elongation at break	285	%	
Hardness	74	ShoreA	ASTM D2240
Compression set			ASTM D395 method B
25 % deformation, 70 h at 200 °C			
O-ring #214	32	%	
6 mm buttons	27	%	

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