

# Tecnoflon® FOR 537



Solvay  
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Cure incorporated copolymer



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**Tecnoflon® FOR 537**

## GENERAL FEATURES

**TECNOFLON® FOR 537** is a low viscosity cure incorporated fluoroelastomer copolymer. This grade is especially suited for injection molding of O-rings and sealing components which must meet demanding specifications. Tecnoflon® FOR 537 contains a proprietary cure system and a special processing aid providing superior processability for fast cycles and scorch safety. It has been particularly designed to offer improved characteristics such as flow, mold release, scorch safety and faster cycles at higher molding temperatures.

Some of the basic properties of Tecnoflon® FOR 537 are:

- Best for high duro and non black compounds
- O-ring curative level
- Low viscosity
- Improved scorch safety
- Easiest mold release, no mold fouling

**TECNOFLON® FOR 537** can be used for injection and transfer moulding of O-rings, gaskets, and seals. The product can be mixed using typical fluoroelastomers compounding ingredients and mixing can be accomplished with two-roll mills or internal mixers.

The material 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.

Basic characteristics of the raw polymer are as follows:

PROPERTIES	TYPICAL VALUES
ML (1+10') @ 121°C	20
Fluorine content (%)	66
Specific gravity (g/cc)	1.81
Colour	Off white
Packaging / Form	Slabs
Solubility	Ketones and esters

## 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.



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## Tecnoflon® FOR 537

### TYPICAL RHEOLOGICAL PROPERTIES

TEST COMPOUND		
<b>Tecnoflon® FOR 537</b>		100
MgO-DE	phr	3
Ca(OH) <sub>2</sub>	phr	6
N-990 MT Carbon Black	phr	30
<b>Mooney Viscosity ML (1+10') @ 121°C</b>		MU
		44
<b>Mooney Scorch MS 135°C</b>		
MV	MU	17.5
t <sub>15</sub>	min	41
<b>ODR 12 min @ 177°C arc 3°</b>		
Minimum Torque	lb*in	6.6
Maximum Torque	lb*in	130
t <sub>s2</sub>	min	2.5
t' <sub>90</sub>	min	3.6
<b>MDR 6 min @ 177°C arc 0.5°</b>		
Minimum Torque	lb*in	0.8
Maximum Torque	lb*in	27.7
t <sub>s2</sub>	min	1.4
t' <sub>50</sub>	min	1.6
t' <sub>90</sub>	min	2.5



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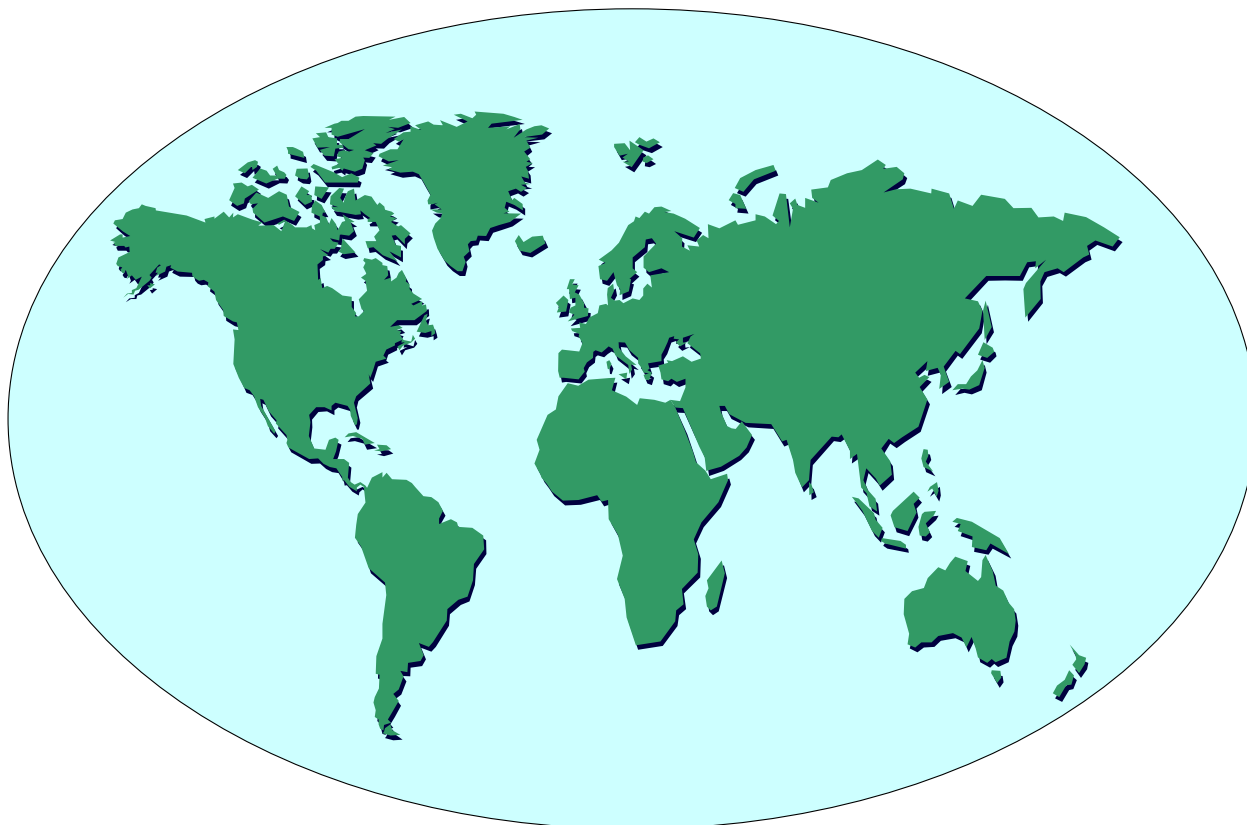
**Tecnoflon® FOR 537**

## TYPICAL PHYSICAL PROPERTIES

TEST COMPOUND		
<b>Tecnoflon® FOR 537</b>		100
MgO-DE	phr	3
Ca(OH) <sub>2</sub>	phr	6
N-990 MT Carbon Black	phr	30

MECHANICAL PROPERTIES		
<b>Press Cure: 10 min @ 170°C</b>		
100 % Modulus	MPa	6.0
Tensile Strength	MPa	10.5
Elongation at Break	%	200
Hardness	ShoreA	74
<b>Post Cure: (8+16) h @ 250°C</b>		
100 % Modulus	MPa	8.8
Tensile Strength	MPa	17.0
Elongation at Break	%	160
Hardness	ShoreA	78

COMPRESSION SET (25 % Deformation, ASTM D395 Method B, 70 h @ 200 °C)		
#214 O-Ring	%	18
6 mm Buttons	%	13



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