

Tecnoflon® FOR 532



Cure incorporated copolymer

Solvay
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GENERAL FEATURES

TECNOFLON® FOR 532 is a medium viscosity cure incorporated fluoroelastomer copolymer. This grade is well suited for applications where excellent compression set and superior mold release, are required. It can be compounded to meet MIL-R83428B and other major fluoroelastomer specifications.

Some of the basic properties of Tecnoflon® FOR 532 are:

- Very fast cure rate
- Excellent scorch safety
- Good mold flow
- Superior mold release
- Lack of mold fouling
- Very low compression set

TECNOFLON® FOR 532 can be used for compression 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	45
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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TYPICAL RHEOLOGICAL PROPERTIES

TEST COMPOUND			
Tecnoflon® FOR 532		100	
MgO-DE	phr	3	
Ca(OH) ₂	phr	6	
N-990 MT Carbon Black	phr	30	
Mooney Viscosity ML (1+10') @ 121°C		MU	82
Mooney Scorch MS 135°C			
MV	MU	39	
t ₁₅	min	28	
ODR 12 min @ 177°C arc 3°			
Minimum Torque	lb*in	17	
Maximum Torque	lb*in	120	
t _{s2}	min	2.2	
t' ₉₀	min	3.8	
MDR 6 min @ 177°C arc 0.5°			
Minimum Torque	lb*in	2.0	
Maximum Torque	lb*in	26.1	
t _{s2}	min	1.4	
t' ₅₀	min	1.8	
t' ₉₀	min	2.5	

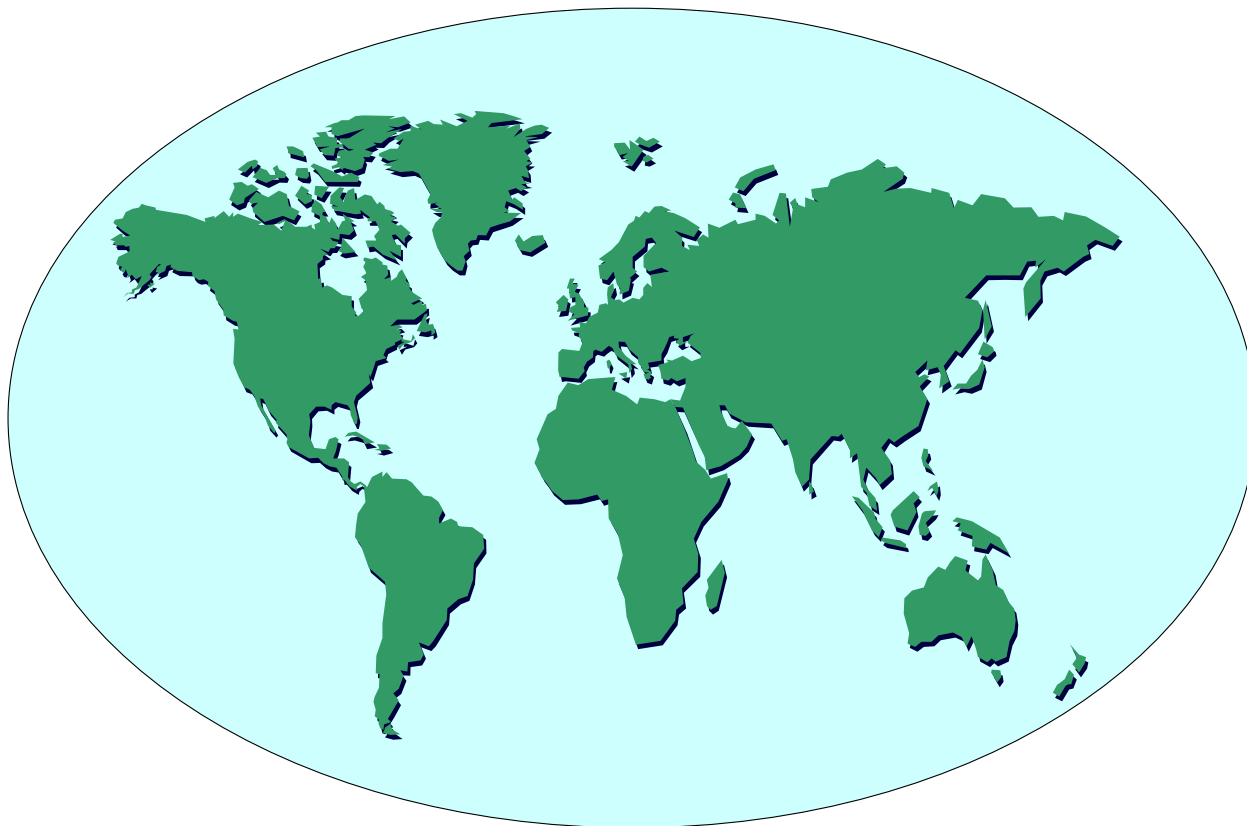


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TYPICAL PHYSICAL PROPERTIES

TEST COMPOUND		
Tecnoflon® FOR 532		100
MgO-DE	phr	3
Ca(OH) ₂	phr	6
N-990 MT Carbon Black	phr	30
MECHANICAL PROPERTIES		
Press Cure: 10 min @ 170°C		
Post Cure: (8+16) h @ 250°C		
100 % Modulus	MPa	8.2
Tensile Strength	MPa	18.8
Elongation at Break	%	184
Hardness	ShoreA	77
COMPRESSION SET		
(25 % Deformation, ASTM D395 Method B, 70 h @ 200 °C)		
#214 O-Ring	%	13
HEAT RESISTANCE (ASTM D573, 70 h @ 275°C)		
Δ Tensile strength	%	-18
Δ Elongation at break	%	+7
Δ Hardness	ShoreA	+1



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Local laws and regulations (i.e. on consumers protection, safety, health and environment) are applicable.

The users shall be solely responsible of their respect.

Furthermore, freedom of use under patent or other similar rights should not be assumed.



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