Tecnoflon® FOR TF 636

Fluoroelastomer

Solvay Specialty Polymers

Message:

TECNOFLON® FOR TF 636 is a medium-low viscosity cure incorporated fluoroelastomer terpolymer designed to provide improved low temperature characteristics. Tecnoflon® FOR TF 636 exhibits the same excellent heat and chemical resistance expected from Tecnoflon® copolymers.
Some of the basic properties of TECNOFLON® FOR TF 636 are:
Improved low temperature performance
Good heat and chemical resistance
Very low compression set
Excellent mould release
Lack of mould fouling
Superior mould flow
Tecnoflon ® FOR TF 636 can be used for compression, injection and transfer molding of O-rings, diaphragms, gaskets, seals, moulded shapes or other items requiring improved low temperature performance. Tecnoflon ® FOR TF 636 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 TF 636 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.

General Information	
Features	Good Chemical Resistance
	Good Mold Release
	High Flow
	High Heat Resistance
	Low Compression Set
	Medium-low Viscosity
	Terpolymer
Uses	Belts/Belt Repair
	Blending
	Diaphragms
	Gaskets
	Hose
	Profiles
	Seals
	Sheet
Appearance	Off-White
Forms	Slab
Processing Method	Calendering
	Compounding
	Compression Molding

Extrusion

Injection Molding

Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity [1]	1.81	g/cm³	ASTM D792
Mooney Viscosity			ASTM D1646
ML 1+10, 121°C [2]	61	MU	
ML 1+10, 121°C [3]	31	MU	
Fluorine Content [4]	66	%	Internal Method
Solubility [5]	Ketones and esters		
Temperature Retraction			ASTM D1329
TR10	-19	°C	
TR30	-14	°C	
TR50	-10	°C	
Compound Tested			
Ca(OH)2	6	%	
MgO – DE	3	%	
N-990 MT Carbon Black	30	%	
Tecnoflon® FOR TF 636	100	%	
MDR 6 min @ 177°C arc 0.5°			ASTM D6601
Maximum torque	3.0	N·m	
Minimum torque	0.16	N·m	
t'50	1.4	min	
t'90	2.1	min	
ts2	1.2	min	
Mooney Scorch MS 135°C			ASTM D1646
MV	28	MU	
t15	24.0	min	
ODR 12 min @ 177°C arc 3°			ASTM D2084
Maximum torque	15	N·m	
Minimum torque	1.5	N·m	
t'90	3.5	min	
ts2	2.0	min	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness [6] (Shore A)	76		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	8.20	MPa	ASTM D412
Tensile Strength	18.4	MPa	ASTM D412
Tensile Elongation (Break)	170	%	ASTM D412

NOTE			
1.	Raw polymer		

2.	Test compound
3.	Raw polymer
4.	Raw polymer
5.	Raw polymer
6.	Press cure: 10 min at 170 °C, post cure: (8+16) h at 250 °C

Recommended distributors for this material

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