Tecnoflon® FOR TF 636

fluoroelastomer

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.

Click here for full datasheet.

General		
Material Status	• Commercial: Active	
Availability	• Europe	• North America
Features	• Chemical Resistant • 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	Typical Value	Unit	Test method
Density / Specific Gravity [1]	1.81		ASTM D792
Mooney Viscosity			ASTM D1646
ML 1+10, 121°C [1]	31	MU	
ML 1+10, 121°C [2]	61	MU	
Fluorine Content [1]	66	%	Internal Method
Solubility [1]	Ketones and esters		

Tecnoflon® FOR TF 636
fluoroelastomer

Elastomers	Typical Value	Unit	Test method
Tensile Stress [3, 4] (100% Strain)	8.20	MPa	ASTM D412
Tensile Strength [3, 4]	18.4	MPa	ASTM D412
Tensile Elongation [3, 4] (Break)	170	%	ASTM D412

Hardness	Typical Value	Unit	Test method
Durometer Hardness [4] (Shore A)	76		ASTM D2240

Thermal	Typical Value	Unit	Test method
Temperature Retraction			ASTM D1329
TR10	-19	°C	
TR30	-14	°C	
TR50	-10	°C	

Additional Information	Typical Value	Unit	Test method
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	

Tecnoflon® FOR TF 636
fluoroelastomer

Notes

Typical properties: these are not to be construed as specifications.

[1] Raw polymer

[2] Test compound

[3] Die C

[4] Press cure: 10 min at 170 °C, post cure: (8+16) h at 250 °C

www.solvay.com

SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa

SpecialtyPolymers.Americas@solvay.com | Americas

SpecialtyPolymers.Asia@solvay.com | Asia and Australia

SOLVAY

asking more from chemistry®