## Т60-Н00



## Introduction

Seflor® T60-H00 fluoroelastomer is a medium-high viscosity terpolymer of hexafluoropropene, tetrafluoroethylene and vinylidene fluoride particularly suitable for injection moulding of sealing devices that must meet the most critical conditions of usage. Due to narrow molecular weight distribution and a low long chain branching content Seflor® T60-H00 fluoroelastomer offers significant processing ease that can be modified when blended with similar fluoroelastomers. High level of fluoride makes the T60-H00 particularly suitable for applications where high chemical resistance is required.

## Seflor® T60-H00 provides:

- High chemical resistance
- improved injection rate
- fast curing rates
- low mould fouling
- easy mould release
- good mould flow
- improved extrusion
- good compression set resistance

## Safety and Handling

## **Application**

- Injection Moulded goods
- 0 rings
- Gaskets, seals and profiles
- Extruded cords

Despite the chemical inertness at ambient temperature, Seflor® T types fluoroelastomers should be handled in such a way to avoid contact with skin and eyes. In case of contact, wash thoroughly with soap and water. Store in a well ventilated place away from any source of heat. Smoking is strictly forbidden in working and storage areas. In the event of fire, toxic gases are produced. Refer to MSDS for additional information. For the safe handling of other compound ingredients normally used in fluoroelastomers compounding, please refer to the respective manufacturers.

## **Product Description**

Chemical Composition	Terpolymer of hexafluoro- propene, tetrafluoroethylene and vinylidene fluoride		
Physical Form	Slabs		
Color	Off white		
Odor	Odorless		
Specific Gravity	1,90 ± 0,02 g/cm <sup>3</sup>		
Fluorine Content	70 %		
Glass transition temperature (Tg)	-9±1°C		
Solubility	Low molecular weight esters and ketones		
Storage Stability	Excellent		
Mooney Viscosity, ML 1+10 at 121 °C (250 °F)	60 MU		

## Seflor® T60-H00 typical Compound

Seflor® T60-H00	91,6	phr
High activity magnesium oxide (MgO)	3	phr
Calcium Hydroxide (Ca(OH) <sub>2</sub> )	6	phr
Medium Thermal Carbon Black (N990)	13	phr
Blank Fixe Micro	30	
Seflor® Curative 1 <sup>1</sup>	6,9	phr
Seflor® Curative 3 <sup>2</sup>	1,5	phr
Processing aids (wax)	1	phr

1) Fluoroelastomer masterbatch 33% by weight of Bisphenol AF {4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bisphenol} and Benzyltriphenylphosphonium salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bisphenol (1:1)

2) Fluoroelastomer masterbatch 33% by weight of Benzyltriphenylphosphonium chloride

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# T60-H00



## Performance of Seflor® T60-H00 in typical Compound

### **STOCK PROPERTIES**

MDR at 180 °C, 6 min

250°C

ML	1,63	dN*m
T <sub>s</sub> 2	1,12	min
T <sub>c</sub> 90	2,81	min
МН	22,05	dN*m

### **VULCANIZATE PROPERTIES**

Slabs cured 10 min at 180°C, 110 kPa, post cured 3+18 hrs at 230°C

100% modulus	4,2	MPa
Tensile strength	11,1	MPa
Elongation at the break	209	%
Hardness	76	ShoreA

Mechanical properties at 23°C, after aging in air 70 hrs at Swelling resistance in test fluids,  $\triangle$  Volume %

Fuel C, 70 hr at 23°C	+ 3,0	%
M15 (85% Fuel C / 15% Methanol), 70 hr at 23°C	+ 7,0	%
IRM 903 Oil, 70 hr at 150°C	+ 1,2	%

#### 100% modulus 4.1 MPa

Tensile strength	10,8	MPa
Elongation at the break	280	%
Hardness	78	ShoreA

### Compression set, Method B disks, 25% def.

Aged 70 hr	@ 200°C	35%
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## **Test procedures**

Compression set	ASTM D 395, Method B	Mooney viscosity	ASTM D 1646
Compression set, O-ring	ASTM D 1414	Property change after oven heat aging	ASTM D 573
Hardness	ASTM D 2240, Durometer A (Shore A)	Stress strain properties	ASTM D 412
MDR (Moving Die Rheometer)	ASTM D 5289	Volume change in fluids	ASTM D 471

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