

Introduction

ELIFLON-P-C40-001 is a medium-low viscosity cure incorporated copolymer of hexafluoropropene and vinylidene fluoride. This grade offers significant processing ease and it is designed for injection and transfer moulding.

ELIFLON-P-C40-001 provides

- Good mould flow
- Low mould fouling
- Easy mould release
- Very low compression set

Application

- Moulded goods, e.g. shaft seals
- Calendered goods
- O-rings, gaskets, seals and profiles
- Extruded cords

Use and processing procedures

ELIFLON-P-C40-001 can be compounded with internal mixers or two-roll mills using typical fluoroelastomers fillers and the other ingredients.

Safety and handling

Despite the chemical inertness at ambient temperature, ELIFLON-P-C40-001 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	Copolymer of hexafluoropropene, and vinylidene fluoride plus cure chemicals
Fluorine content	66%
Density	1,82 ± 0,03 g cm ⁻³
Colour	Off-white
Odour	None
Solubility	Ethers and ketones
Storage stability¹	Excellent
Physical form	Slabs
Mooney viscosity	40 ± 5 {ML 1+10 @121°C}

1) At ambient temperature in a well-ventilated place

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AND DISTRIBUTED BY**



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Table 1. Performance of ELIFLON-P-C40-001 in typical compound

TEST COMPOUND

ELIFLON-P-C40-001	phr	100
High activity magnesium oxide (MgO)	phr	3
Calcium Hydroxide (Ca(OH) ₂)	phr	6
Medium thermal carbon black (N990)	phr	30
Processing aids (wax)	phr	1

STOCK PROPERTIES

ODR @ 170°C, 0,5° arc, 6 min.

	Unit	Typical value	Test method
M _L	dNm	1,20	ASTM D 6601
T _{s1}	m.m	1,41	
t _{s2}	m.m	1,66	
T _{c90}	m.m	3,32	
M _H	dNm	24,99	

VULCANIZATE PROPERTIES

Press cure 10 min @ 180°C, 110 kPa, post cure 3+15 hrs @ 230°C

	Unit	Typical value	Test method
100% modulus	MPa	6,2	ASTM D 412
Tensile strength	Mpa	13	
Elongation at break	%	230	
Hardness	ShA points	73	ASTM D 2240
Compression-set 22 hrs @ 200°C	%	8	ASTM D 395-B

Packaging






ELIFLON-P-C40-001 is packaged in 25 kg/boxes and are piled on 1000 kg/pallet with base measures 110 cm x 110 cm and height 130 cm.

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Packaging recycling instructions:

- plastic pallet: 
HDPE
- cardboard: 
PAP
- straps: 
PET
- labels: 
PAP
- bags: 
PE-LD

The information contained in these specifications is based on the technical data of Sersar Srl and is provided free of charge. It is to be used solely by skilled individuals who use the material described, alone or in a mixture with other materials, shall ensure that the particular conditions or the particular formulations adopted present no health or safety hazard. Because conditions of product use or disposal are beyond our control, Sersar Srl issues no warranty, express or implied, and assumes no liability in connection with use of the information provided. The information contained herein is intended only as a guideline. An appropriate evaluation of any mixture of the material described above with other materials is absolutely necessary. The material described herein is not suitable for any implantation into the human body.

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