

FKM ELAFTOR 7005



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC

Synonyms: FKM246
Chemical composition: VDF+HFP+TFE
Cure type: Peroxide
HS code: 3904692000

ELAFTOR 7005 is a peroxide cured fluoroelastomer which is a terpolymer of VDF+HFP+TFE. ELAFTOR 7005 has the lowest rate of fuel permeation. ELAFTOR 7005 based rubbers have high strength to vapor, acids, oils, aromatic hydrocarbons and diluted alkalis. ELAFTOR 7005 operating temperature range is from -15° to 250°C (from 5° to 482°F). The product is processed by compression, extrusion and injection molding.



Parameters of raw gum*:

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
Appearance	-	Sheets or lumps of agglutinated crumbs	-
Mooney viscosity, ML 1+10 @ 121°C / 250°F	MU	26-73	ISO 289-1
Volatile loss	% wt. max	0,5	ISO 248 (120°C / 248°F)
Fluorine content	% wt.	70	Potentiometric
Specific gravity	g/sm ³	1,91	ISO 2781, ASTM 792
T glass transition	°C	-5	ISO 22768

* These are typical properties and are not to be used for specification purpose.

Parameters of cured gum*:

press cure 30min @ 170°C / 338°F

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
Tensile strength	MPa	22	ISO 37
Elongation	%	230	ISO 37
Compression set	%	27	ISO 815 (70h at 200°C / 392°F disc)
Hardness	Shore A	77	ISO 48-4

*Properties of cured rubber are not to be used for specification purpose.

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Compound Formulation:

FORMULATION	UNITS	TYPICAL VALUE
Rubber	Phr	100
Luperox 101XL45	Phr	3
TAIC	Phr	3
N-990MT Carbon Black	Phr	30



Main application:

Elaftor 7005 is an excellent choice for making O-rings, hoses, seals, valve gaskets, diaphragms, membranes and other products.



Package:

ELAFTOR 7005 is available in 22kg box



Safety and Handling:

- Handle in well-ventilated areas;
- Fumes must not be inhaled;
- Eye and skin contact must be avoided. In case of skin and eye contact wash with water immediately and seek medical help;
- Smoking is prohibited;
- Do not use metallic particulate as mixing agent as it can decompose at high temperature;
- Store away from heat, keep in clean and dry area.

Before using fluoroelastomer please read the Material Safety Data Sheet carefully.