

FFKM

ELAFTOR 1000P



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC

Synonyms: FFKM
Chemical composition: TFE+PMVE+CSM
Cure type: Peroxide
HS code: 3904692000
CAS: 26425-79-6

ELAFTOR 1000P is a peroxide cured perfluoroelastomer (FFKM) which is a copolymer of tetrafluoroethylene and perfluoromethylvinylether (TFE+PMVE+ CSM). ELAFTOR 1000P based rubbers demonstrate excellent chemical resistance in a wide range of aggressive substances including inorganic and organic acids, alkalis, most of polar solvents, amines, steam and hot water. ELAFTOR 1000P operating temperature range is from -5° to 230°C (from 23° to 446°F). The product is processed by compression 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	23-60	ISO 289-1
Volatile loss	% wt.max	0,5	ISO 248 (120°C / 248°F)
Specific gravity	g/sm ³	2,05	ISO 2781
T glass transition	°C	-3/27	ISO 22768

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

Parameters of cured gum*:

press cure 10min @ 160°C / 320°F;
post cure 4h @ 230°C / 446°F

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
Tensile strength	MPa	20	ISO 37
Elongation	%	140	ISO 37
Compression set	%	20	ISO 815 disc (70h @ 200°C / 392°F)
Hardness	Shore A	80	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	1,5
TAIC	Phr	1,5
N-990MT Carbon Black	Phr	25



Main application:

Valve gaskets, membranes, pumps, compressors in chemical and oil industries, other industries including paints and coatings, semiconductor applications manufacturing.



Package:

Elaftor 1000P 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 perfluoroelastomer please read the Material Safety Data Sheet carefully.