

TECHNICAL DATA SHEET

ELAFTOR 7005

ELAFTOR 7005 is a peroxide cured fluoroelastomer which is a terpolymer of VF2+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

- Applications: O-rings, hoses, seals, valve gaskets, diaphragms, membranes, and other products.

Parameters of raw gum	Unit	Value	Test methods
Appearance		Sheets or lumps of agglutinated crumbs	-
Mooney viscosity, ML 1+10 @ 121°C / 250°F		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/cm ³	1,91	ISO 2781, ASTM 792
T glass transition	°C / °F	-5	ISO 22768

Parameters of cured gum* (press cure 177°C / 350°F @ 10min, post cure 230°C / 446°F @ 8h)	Unit	Value	Test methods
Tensile strength	MPa	22	ISO 37
Elongation	%	230	ISO 37
Compression set	%	27	ISO 815 (70h @ 200°C / 392°F disc)
Hardness	Shore A	77	ISO 7619-1

Compound Formulation

Rubber, phr	100
Luperox 101XL45, phr	3
TAIC, phr	3
N-990MT Carbon Black, phr	30

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