

## TECHNICAL DATA SHEET

## ELAFTOR 1000

ELAFTOR 1000 is a high temperature perfluoroelastomer (FFKM) which is a copolymer of tetrafluoroethylene and perfluoromethylvinylether. ELAFTOR 1000 based rubbers demonstrate excellent chemical resistance in a wide range of aggressive substances including inorganic and organic acids, alkalies, most of polar solvents, amines. ELAFTOR 1000 operating temperature range is from -10° to 315°C. The product is processed by compression molding.

- Applications: Valve gaskets, membranes, pumps, compressors in chemical and oil industries, other industries including paints and coatings, semiconductor applications including plasma

Parameters of raw gum	Unit	Value	Test methods
Appearance		Sheets or lumps of agglutinated crumbs	-
Mooney viscosity, ML 1+10 @ 121°C / 250°F		37-90	ISO 289-1
Volatile loss	% wt. max	0.5	ISO 248 (120°C / 248°F)
Specific gravity	g/cm <sup>3</sup>	2,05	ISO 2781
T glass transition	°C	-5	ISO 22768

### Parameters of cured gum \*

press cure 160°C / 320°F @ 40min,

post cure

Heating to 200°C @ 3.5h

200°C @ 16h

Heating to 260°C @ 0.5h

260°C @ 16h

	Unit	Value	Test methods
Tensile strength	MPa	15	ISO 37
Elongation	%	140	ISO 37
Compression set	%	15	ISO 815 disc (70h @ 200°C / 392°F)
		30	(70h @ 300°C / 572°F)
Hardness	Shore A	78	ISO 7619-1

### Compound Formulation

Rubber, phr	100
2.2-bis(3-amino-4-hydroxyphenyl)propane, phr	1
N-990MT Carbon Black, phr	25

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

