HaloPolymer
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«HaloPolymer»

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TECHNICAL DATA SHEET

ELAFTOR 1000P

ELAFTOR 1000P is a peroxide cured perfluoroelastomer (FFKM) which is a copolymer of tetrafluoroethylene and perfluoromethylvinylether. ELAFTOR 1000P based rubbers demonstrate excellent chemical resistance in a wide range of aggressive substances including inorganic and organic acids, alkalies, 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.

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

Parameters of raw gum	**Unit**	**Value**	**Test methods**
Appearance		Sheets or lumps of agglutinated crumbs	-
Mooney viscosity, ML 1+10 @ 121°C / 250°F		27-60	ISO 289-1
Volatile loss	% wt. max	0.5	ISO 248 (120^{0}C / 248°F)
Specific gravity	g/cm^3	2,05	ISO 2781
T glass transition	°C / °F	-3 / 27	ISO 22768

Parameters of cured gum * (press cure 160°C / 320°F @ 10min, post cure 230°C / 446°F @ 4h)	**Unit**	**Value**	**Test methods**
Tensile strength	MPa	20	ISO 37
Elongation	%	140	ISO 37
Compression set	%	28	ISO 815 (70h @ 200°C / 392°F disc)
Hardness	Shore A	80	ISO 7619-1

Compound Formulation	
Rubber, phr	100
Luperox 101XL45, phr	1,5
TAIC,phr	1,5
N-990MT Carbon Black, phr	20

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