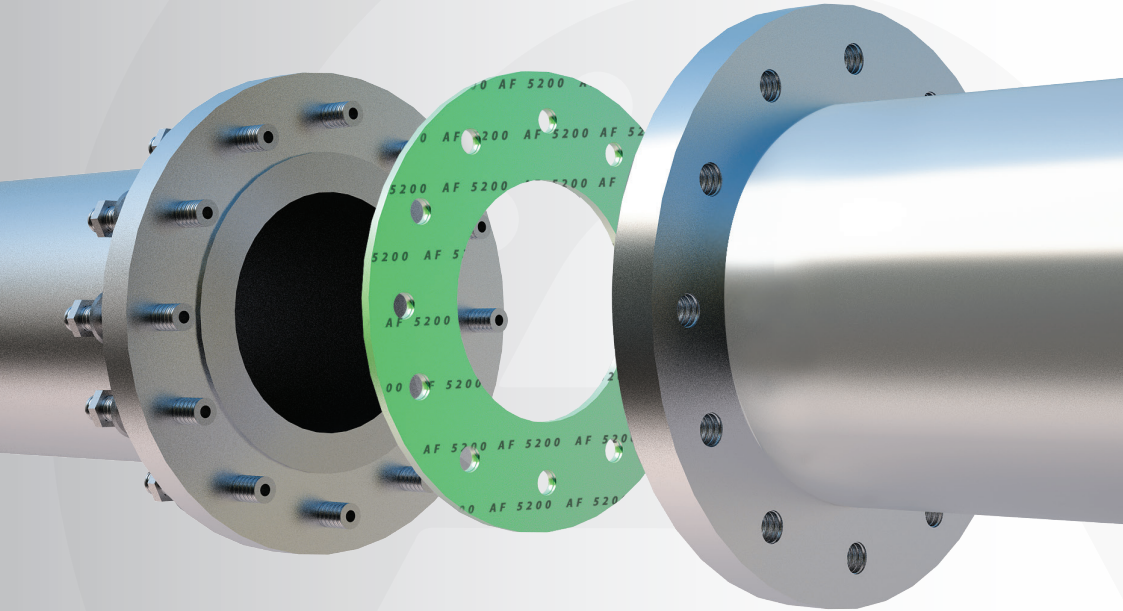




**ARAFLEX**

GASKETS & JOINTINGS Pvt Ltd



**MANUFACTURER OF GASKET JOINTING SHEETS  
(CNAF, PTFE, GRAPHITE) & GASKETS**



## ARAFLEXGASKET

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Araflex gaskets and Jointings started its operation in India under the partnership of experts of gaskets since decades. CNAF sheets are the prime focused product under the Araflex roof and manufacture other gasket raw materials like PTFE sheets (Filled & Pure) and Graphite sheets.

Gaskets are considered as a problem solver for joint leakage hassles in industry. Joint leakages are caused by several reasons, but a proper gasket can stop 99% of emissions and fluid leakages to the desired levels. The selection of gaskets depends up on various engineering factors need an expert opinion and a trained technician for installation.

Manufacturing techniques of gaskets are of utmost important to ensure proper sealing. Araflex can supply the highest quality gasket sheets and gaskets by following the latest technology and automations in their factory.

## Mission & Visions

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Develop a potential market for gasket sheets and gaskets in India and foreign market is our prime mission by developing mutual trust and 24/7 service to the valuable customers.

Cater complete gasket raw materials and gaskets under one roof with highest quality standards and utmost important to human safety as a motto is our vision.



**ARAFLEX**

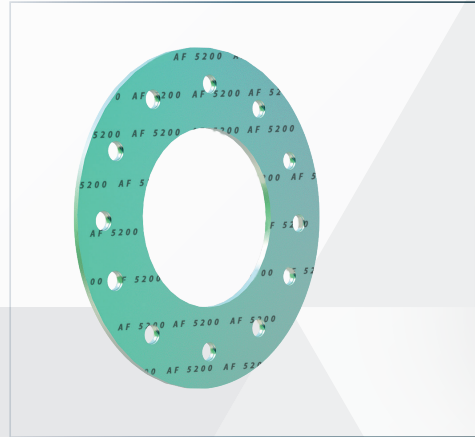
GASKETS & JOINTINGS Pvt Ltd

sales@araflexgasket.com

www.araflexgasket.com

## STYLE: AF-5200

Mild and less severe applications are always there but why go for traditional and costly gasket sheets? We design an economic combination of HIGH QUALITY Aramid fibers and Inorganic fibers bonded with NBR. Recommended for mild services in piping installation applications, work with mild steam, hydrocarbons and refrigerants.



Color	Green, Branded
Fiber:	Aramid/Inorganic
Binder:	Nitrile (NBR)
Fluid Service:	Steam, Water, Oils, Dilute Acids & Alkalies Solvents, Refrigerants.
Density:	1.7 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	1500 psi (11.3Mpa)
Change in Tensile, ASTM F-152	30% Max
Compressibility ASTM F 36:	8 to 19%
Recovery ASTM F 36:	45%
Temperature	
Range:	-100 to 662°F (-73 to 350°C)
Max. Continuous :	413°F (212°C)
Max. Pressure:	870 psig (60 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 15%
Weight increase:	15%



ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase:	0 to 10%
Weight increase:	12%
Sealability	
ASTM F 37 (Fuel A):	0.03ml/hr
ASTM F37 (Nitorgen):	0.5 ml/hr
Dielectric Breakdown ASTM D 149:	11kV/mm (279V/mil)
DIN 3535 Gas Permeability:	0.05cc/min
Creep relaxation ASTM F 38:	20%
Flexibility ASTM F1 47:	10x
Gasket Factors of Araflex-AF-5200	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	3	3.2
<b>y psi (Mpa)</b>	3347 (23.08)	3385 (23.34)

**Note:**

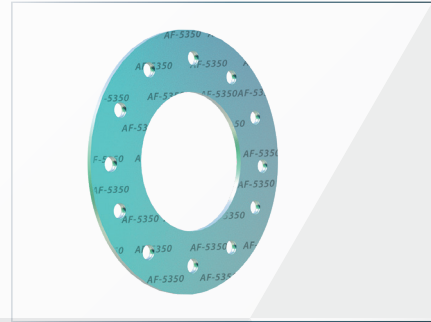
ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

AraflexWarning: Araflex gasket materials should never be recommended when both the temperature and the pressure are at the maximums listed. Properties and applications shown are typical. No application should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint, and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious personal injury. The data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. The information and specifications contained in this website are subject to change without notice. This revision cancels and obsoletes all previous editions.



## STYLE: AF-5350

The widely used and high-performance gasket sheet from Araflex to apply joints where doubts of leaking exist. Highest quality of Aramid fiber in extra % added with inorganic fiber and superior quality NBR binder. Excellent with natural gas, Steam, new generation refrigerants, chemical, refinery, gas pipe line, food beverage and pharmaceutical industries.



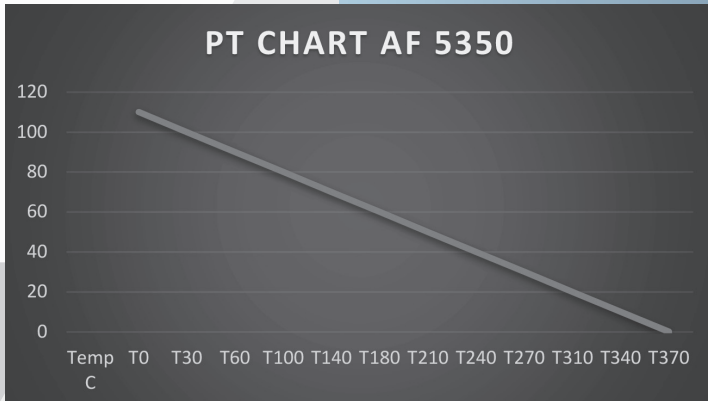
### TYPICAL PROPERTIES

Color	Blue, Branded
Fiber:	Aramid/Inorganic
Binder:	Nitrile (NBR)
Fluid Service:	Steam, natural gas, chemicals, Hydrocarbons Solvents, Refrigerants, food and beverages.
Density:	1.7 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	2000 psi (13,8 Mpa)
Change in Tensile, ASTM F-152	30% Max
Compressibility ASTM F 36:	8 to 16%
Recovery ASTM F 36:	50%
Temperature	
Range:	-100 to 700°F (-73 to 370°C)
Max. Continuous :	548°F (280°C)
Max. Pressure:	1500 psig (103 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 15%
Weight increase:	15%
ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase:	0 to 10%
Weight increase:	10%
Sealability	
ASTM F 37 (Fuel A):	0.01ml/hr.



ASTM F37 (Nitorgen):	0.4 ml/hr.
Dielectric Breakdown ASTM D 149:	11.7kV/mm (297V/mil)
DIN 3535 Gas Permeability:	0.03cc/min
Creep relaxation ASTM F 38:	20%
Flexibility ASTM F1 47:	10x
<b>Gasket Factors of Araflex-FLEXGUARD 300</b>	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	2.7	4.2
<b>y psi (Mpa)</b>	2359 (16)	2930 (20.20)



Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

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## STYLE: AF-5400

Proved suitable for extreme application range, AF-5400 is widely used in process piping and equipment in chemical, pulp and paper and many other industrial applications. High quality non-asbestos fiber (Aramid Fiber) and excellent heat/oil resistant Nitrile Rubber (NBR) are compounded and calendared into a gasket sheet well suited for use with steam hot oil, oil gas.



### TYPICAL PROPERTIES

Color	Golden, Branded
Fiber:	Aramid
Binder:	Nitrile (NBR)
Fluid Service:	Steam, Water, Oils, Dilute Acids & Alkalies Hydrocarbons, Solvents, Refrigerants.
Density:	1.7 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	1800 psi (12.4 Mpa)
Change in Tensile, ASTM F-152	30% Max
Compressibility ASTM F 36:	8 to 16%
Recovery ASTM F 36:	50%
Temperature	
Range:	-100 to 800°F (-73 to 427°C)
Max. Continuous :	554°F (290°C)
Max. Pressure:	1500 psig (103 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 15%
Weight increase:	15%
ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase:	0 to 10%
Weight increase:	15%
Sealability	
ASTM F 37 (Fuel A):	0.03ml/hr





ASTM F37 (Nitorgen):	0,5 ml/hr
Dielectric Breakdown ASTM D 149:	14kV/mm (370V/mil)
DIN 3535 Gas Permeability:	0,05cc/min
Creep relaxation ASTM F 38:	25%
Flexibility ASTM F1 47:	8x
<b>Gasket Factors of Araflex-FLEXGUARD 300</b>	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	3,7	3,0
<b>y psi (Mpa)</b>	3515 (24,2)	4010 (27,50)

Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

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## STYLE: AF-5450

A distinctive design of Araflex for a high trouble sealing area of Steam and Hydrocarbons. Piping experts always demand an alternate to graphite gaskets, AF-5450 contains high strength carbon fibers bonded with NBR synthetic rubber. Best worked with refinery, petrochemical, water desalination and power generating industries.



### TYPICAL PROPERTIES

Color	Black, Branded
Fiber:	Aramid
Binder:	Carbon Fiber
Fluid Service:	Steam, Water, Oils, Dilute Acids & Alkalies Hydrocarbons, Solvents, Refrigerants.
Density:	1.6 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	1800 psi (12.4 Mpa)
Change in Tensile, ASTM F-152	25% Max
Compressibility ASTM F 36:	8 to 16%
Recovery ASTM F 36:	50%
Temperature	
Range:	-100 to 752°F (-73 to 400°C)
Max. Continuous :	600°F (315°C)
Max. Pressure:	2175 psig (150 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 10%
Weight increase:	10%
ASTM Fuel B 5h/70°F (21°C)	
Thickness Increase:	0 to 10%
Weight increase:	12%
Sealability	
ASTM F 37 (Fuel A):	0.03ml/hr





ASTM F37 (Nitrogen):	0.4 ml/hr
Dielectric Breakdown ASTM D 149:	14kV/mm (370V/mil)
DIN 3535 Gas Permeability:	0.05cc/min
Creep relaxation ASTM F 38:	18%
Flexibility ASTM F1 47:	10x
<b>Gasket Factors of Araflex-FLEXGUARD 300</b>	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	3.7	3.0
<b>y psi (Mpa)</b>	3515 (24.2)	4010 (27.50)

Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

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## STYLE: AF-5450W

Extended from AF 5450 to AF 5450W by spreading steel wire to withstand severe conditions of pressure and temperature. AF-5450W contains high strength carbon fibers bonded with NBR synthetic rubber and steel wire reinforced. Best worked with boilers, refinery, petrochemical, water desalination and power generating industries.



### TYPICAL PROPERTIES

Color	Black, Branded
Fiber:	Carbon Fiber
Binder:	Nitrile (NBR)
Reinforcement:	Steel Wire
Fluid Service:	Steam, Water, Oils, Dilute Acids & Alkalies Hydrocarbons, Solvents, Refrigerants.
Density:	1.6 g/cm <sup>3</sup>
Tensile Strength ASTM F 152:	2175 psi (15.0 Mpa)
Change in Tensile, ASTM F-152	20% Max
Compressibility ASTM F 36:	10 to 17%
Recovery ASTM F 36:	40%
Temperature	
Range:	-100 to 752°F (-73 to 400°C)
Max. Continuous :	600°F (315°C)
Max. Pressure:	2175 psig (150 bar)
Fluid Resistance-ASTM F146 IRM 903 Oil, 5h/300°F (150°C)	
Thickness increase:	0 to 10%
Weight increase: ASTM Fuel B 5h/70°F (21°C)	10%
Thickness Increase:	0 to 10%
Weight increase:	12%
Sealability	
ASTM F 37 (Fuel A):	0,03ml/hr





ASTM F37 (Nitorgen):	0.4 ml/hr
Dielectric Breakdown ASTM D 149:	14kV/mm (370V/mil)
DIN 3535 Gas Permeability:	0.05cc/min
Creep relaxation ASTM F 38:	19%
Flexibility ASTM F1 47:	10x
<b>Gasket Factors of Araflex-FLEXGUARD 300</b>	

<b>THICKNESS</b>	1/16"	1/8"
<b>m factor</b>	3.8	3.0
<b>y psi (Mpa)</b>	3800 (26.2)	4200 (28.95)

Note: ASTM properties based on 1/16" sheet thickness except ASTM F38, which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

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# ARAFLOX 4522 VIRGIN PTFE (WHITE) SHEET

A Fluoropolymer product for high resistance to chemicals and weather. PTFE is a soft, low friction fluoropolymer with outstanding chemical and weather resistance. Shows high stability up to 500°F (260°C) and have high dielectric properties. Pure PTFE is extremely soft, formable and it is often used for chemical resistant seals and gasket making. PTFE Rods, Tubes & Tapes (Araflon 4555) are also available in virgin form.

Applications:



## Recommended

Strong acids  
Caustics, Hydrocarbons, Solvents  
Food and Beverage products  
Petrochemical Industry  
Metallic, organic, chemical compounds  
Cryogenic use

## Recommended

Seals & Gaskets  
Valve and fitting components  
Pump Parts, Manifolds  
Semi-conductor equipment  
Chemical resistant Tubing  
Not good with molten Alkali and Fluorine.

## Operating Conditions

Minimum Temperature	(°C/°F)	:	-200/-328
Maximum Temperature	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	55/800

## Physical Properties

Specific Gravity	ASTM D 792	:	2.14-2.18 g/cm <sup>3</sup>
Hardness Shore D	ASTMD 2240	:	51 +/-5
Compressibility	ASTM F36	:	20-25%
Recovery	ASTM F36	:	45%
Tensile Strength	ASTM F152	:	24 Mpa
Creep Relaxation	ASTM F38	:	35%
pH Range		:	0-14
Dielectric Strength (0.5mm specimen)	ASTM D149	:	40 KV/mm
m value (3mm thk)		:	2.5
y value (3mm thk)		:	2845 psi (19Mpa)

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice.

Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.



# ARAFLON 4545 EXPANDED PTFE HARD CORE (WHITE)

White Expanded Microcellular multi directional PTFE with hard core

Applications:

Suitable	Specialties
Strong acids	Highly compressible
Caustics, Hydrocarbons	Can fill flange surface irregularities
Cryogenics	Hard core reduces creep and cold flow
Glass lined equipment	High bolt torque retention property
Low bolt load FRP GRP flanges	Easily compressed under lower loads
Food Industry	Chemically inert
Refrigerants	Long shelf life

Operating Conditions			
Minimum Temperature	(°C/°F)	:	-268/-450
Maximum Temperature	(°C/°F)	:	316/600
Maximum Continuous Temp	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	85/1232

Physical Properties			
Specific Gravity	ASTM D 792	:	0.65 to 0.1 g/cm <sup>3</sup>
Compressibility	ASTM F36	:	50-60%
Recovery	ASTM F36	:	10%
Creep Relaxation	ASTM F38	:	15%
Gas permeability (cc/min)		:	<0.015
Dielectric Strength	F149	:	250 Volts/mil
m value	1/8" (3.2mm Thk)	:	2.0
y value	1/8" (3.2mm Thk)	:	2200 psi (15Mpa)

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## ARAFLON 4500 SILICA FILLED PTFE (GOLDEN)

A special material blend for concentrated inorganic acids

Applications:



### Suitable

Conc. H<sub>2</sub>SO<sub>4</sub> (Sulphuric Acid)

Most of the chemicals

Potable Water Supply

Petrochemical Industry

Pharmaceutical industry

Food Industry

Steam, Solvents

### Not Suitable

Molten Alkali

Hydrofluoric Acids

Fluorine Compounds, gas

### Operating Conditions

Minimum Temperature	(°C/°F)	:	-250/-418
Maximum Temperature	(°C/°F)	:	270/518
Pressure	(bar/psi)	:	85/1232

### Physical Properties

Specific Gravity	ASTM D 792	:	2.2g/cm <sup>3</sup>
Compressibility	ASTM F36J	:	7-11 %
Recovery	ASTM F36J	:	42%
Tensile Strength	ASTM F152	:	14 Mpa
Creep Relaxation	ASTM F38	:	18%
pH Range		:	0-14
Dielectric Strength	F149	:	20kV/mm
m value		:	4
y value		:	2175 psi (15Mpa)

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## ARAFLON 4504 GLASS FILLED PTFE (BLUE)

A special material blend of PTFE with Glass Microspheres

### Applications:



#### Suitable

Medium conc. Acids, H<sub>2</sub>O<sub>2</sub>  
 Caustics, Hydrocarbons, Solvents  
 Potable Water Supply  
 Petrochemical Industry  
 Pharmaceutical Industry  
 Food Industry  
 Steam, Refrigerants, cryogenics

#### Not Suitable

Molten Alkali  
 Hydrofluoric Acids  
 Fluorine gas

#### Operating Conditions

Minimum Temperature	(°C/°F)	:	-250/-418
Maximum Temperature	(°C/°F)	:	270/518
Pressure	(bar/psi)	:	55/800

#### Physical Properties

Specific Gravity	ASTM D 792	:	1,6 g/cm <sup>3</sup>
Compressibility	ASTM F36J	:	25-35% %
Recovery	ASTM F36J	:	45%
Tensile Strength	ASTM F152	:	14 Mpa
Creep Relaxation	ASTM F38	:	18%
pH Range		:	0-14
Dielectric Strength	F149	:	15kV/mm
m value (3mm thk)		:	2,5
y value (3mm thk)		:	1800 psi (12.4Mpa)

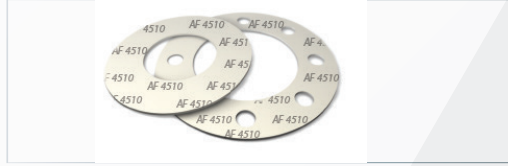
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## ARAFLEX 4510 BARIUM SULFATE FILLED PTFE

Caustic resistant- PTFE filled with BaSo4 off-white



### Applications:

#### Suitable

Strong Caustics  
 Moderate Acids  
 Aqueous Hydrofluoric Acid (below 45%)  
 Pharmaceutical Industry  
 Food Industry  
 Steam, Refrigerants, cryogenics

#### Not Suitable

Molten Alkali Metal  
 Fluorine gas

### Operating Conditions

Minimum Temperature	(°C/°F)	:	-268/-450
Maximum Temperature	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	85/1235

### Physical Properties

Specific Gravity	ASTM D 792	:	2.8 g/cm <sup>3</sup>
Compressibility	ASTM F36J	:	5-10 %
Recovery	ASTM F36J	:	40%
Tensile Strength	ASTM F152	:	14 Mpa
Creep Relaxation	ASTM F38	:	14%
pH Range		:	0-14
Dielectric Strength	F149	:	20 kV/mm
Tp max		:	60500
m value (3mm thk)		:	2.0
y value (3mm thk)		:	2500 psi (17.2 Mpa)

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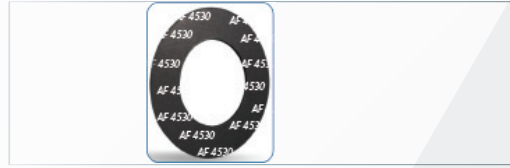


**ARAFLEX**

GASKETS &amp; JOINTINGS Pvt Ltd

## ARAFLON 4530 GRAPHITE PTFE (BLACK)

High performance Graphite filled PTFE gasket for Conc. HF



Applications:

### Recommended usages

Concentrated Hydrofluoric Acid (HF)  
Anhydrous Hydrogen Fluoride (AHF)  
Cryogenics  
Monomers & refrigerants  
Steam, Oils, Caustics, Alcohols, Liquid & Gaseous Oxygen  
Toxic gases  
Resistant to Flame and Bacterial Growth

### Advantages

Low emissions  
Excellent sealability  
No cold Flows  
Flexible  
Anti-sticking  
Easy cutting  
Electrical conducting

Pressure (bar/psi) : 85/1200

### Physical Properties

Specific Gravity ASTM D 792 : 2.1g/cm<sup>3</sup>  
Compressibility ASTM F36 : 5-12%  
Recovery ASTM F36 : 40%  
Tensile Strength ASTM F152 : 20Mpa  
Creep Relaxation ASTM F38 : 30%  
pH Range : 0-14  
Dielectric Strength D149 : 1Kv/mm33 v/mil

### Gasket Factors

m value (1/16" Thk) : 2.8  
y value (1/16" Thk) : 1800 psi (12Mpa)  
m value (1/8" Thk) : 2.0  
y value (1/8" Thk) : 1800 psi (12Mpa)



[sales@araflexgasket.com](mailto:sales@araflexgasket.com)

[www.araflexgasket.com](http://www.araflexgasket.com)

## Leakage

ASTM F37 (Fuel A)	:	0.02ml/hr
ASTM F37 (gas N2)	:	0.015ml/hr

## Operating Conditions

Araflon 4530 is used in Areas where pure PTFE and Barium filled PTFE cannot be used best with highly aggressive chemicals and HF.

Minimum Temperature (°C/°F)	:	-270/-454
Maximum Temperature (°C/°F)	:	260/500
Pressure (bar/psi)	:	85/1200

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice.

Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.



# ARAFLON 4555 VIRGIN PTFE (WHITE)TAPE

A high molecular weight polymer for chemicals resistivity



## Applications:

Machine cut tapes used as filler winding material for spiral wound gaskets industry. Rigid plastic reels are used to support unwinding of the tapes while handling. Supplied in 0.4mm Thk and 5.4mm width.

### Suitable

Medium conc. Acids  
 Caustics, Hydrocarbons, Solvents  
 Alkalines  
 Petrochemical Industry  
 Metallic, organic, chemical compounds  
 Food Industry  
 cryogenics

### Not Suitable

Molten Alkali  
 Hydrofluoric Acids  
 Fluorine gas

### Operating Conditions

Minimum Temperature	(°C/°F)	:	-164/-328
Maximum Temperature	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	25/362

### Physical Properties

Specific Gravity	ASTM D 792	:	2.15 g/cm <sup>3</sup>
Compressibility	ASTM F36J	:	16%
Recovery	ASTM F36J	:	45%
Tensile Strength	ASTM F152	:	22 Mpa
Creep Relaxation	ASTM F38	:	79%
pH Range		:	0-14
Dielectric Strength	F149	:	15kV/mm
m value (3mm thk)		:	2.5
y value (3mm thk)		:	2845 psi (19Mpa)

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice.

Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.



# ARAFLON 4666 EXPANDED PTFE GASKET TAPE

A self-adhesive tape made from 100% pure ePTFE

Softer and more flexible PTFE suitable for irregular and rough surfaces sealings. Wherever an irregular sealing surface and standard gaskets cannot be used, Arafalon 4666 gasket tape can be applied with user friendly and easy installation methods. This is easy to compress and exhibits excellent resistance to creep and cold flow.

Applications:



## Recommended for

Chemical Industry  
 Petrochemical and process industries  
 Pharmaceutical, paper, pulp, food beverage industries  
 Flange connections, normal and irregular  
 Reactor and process vessels and exchangers  
 Food Industry  
 Mining Industry

## Avoid

Molten Alkali  
 Hydrofluoric Acids  
 Fluorine gas

## Operating Conditions

Minimum Temperature	(°C/°F)	:	-268/-450
Maximum Temperature	(°C/°F)	:	260/500
Short Term Peak	(°C/°F)	:	315/600
Pressure	(bar/psi)	:	200/2900

## Physical Properties

Color	:	White
Density	:	0.8gm/cm <sup>3</sup>
pH	:	0-14
Size Range	:	7mm Width to 25mm Width & 2.5mm Thk to 7mm Thk

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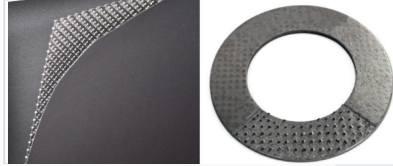
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## STYLE: ARAFOIL 600T (STEEL TANGED)

Pure Expanded Flexible Mineral Graphite Gasket Sheet with Tanged Insert

Metal reinforced laminate consists of Arafoil flexible graphite mechanically bonded to two sides of a perforated steel sheet of SS316/SS304/Inconel. Arafoil exhibits virtually no creep relaxation which helps to avoid periodical bolt tightening considerably.



### Suitable for

Steam Service  
Chemicals  
Petrochemicals  
Cryogenic Applications  
Refineries  
Reactors  
Chimneys & Exhausters

### Specialties

Low permeability to gas and liquids  
Low diffusion rate and high blow out resistance  
High mechanical strength  
Scratch resistant  
As a good anti-stick agent on all flanges.  
Highly resistant to Chemicals and thermal shock  
Long shelf life

### Operating Conditions

Temperature Range (oxidizing media)	-400°F to 975°F (-240°C to 525°C)
Temperature Range (non oxidizing)	-328°F to 5972°F (-200°C to 3300°C)
Maximum Temp Steam	-328°C to 1202°F (-200°C to 650°C)
Pressure	220 bar/3190psi



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## Physical Properties

Density	ASTM C 559	1.1 g/cm <sup>3</sup>
Ash Content (Max)		1%
Total Chlorine (Max)		50ppm
Compressibility (@5000psi load)	ASTM F36A-66	30-38% (1.6mm Thk)
Recovery (@5000psi load)	ASTM F36A-66	18% (1.6mm Thk)
Creep Relaxation		<3%
Tensile Strength	ASTM F152	22 Mpa
Dielectric Strength	F149	250 Volts/mil
"M" Factor		2.0
"y" stress (Max gasket unit load 24000 psi)		2500 psi (17.28Mpa)

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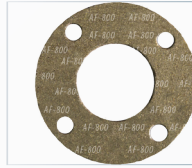


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# ARALITE-V800 VERMICULITE TAPES AND SHEETS

High temperature, high pressure & non-oxidizing



Applications & preparations:

## Suitable

Strong acids  
 Caustics, Hydrocarbons  
 Cryogenics  
 Glass lined equipment  
 Low bolt load FRP GRP flanges  
 Food Industry  
 Refrigerants

## Specialties

Highly compressible  
 Can fill flange surface irregularities  
 Low creep and cold flow  
 High bolt torque retention property  
 Easily compressed under lower loads  
 Chemically inert  
 Long shelf life

## Operating Conditions

Minimum Temperature	(°C/°F)	:	268/-450
Maximum Temperature	(°C/°F)	:	316/600
Maximum Continuous Temp	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	85/1232

## Physical Properties

Specific Gravity	ASTM D 792	:	0.65 to 0.1 g/cm <sup>3</sup>
Compressibility	ASTM F36	:	70-80%
Recovery	ASTM F36	:	8%
Creep Relaxation	ASTM F38	:	10%
Gas permeability (cc/min)		:	<0.015
Dielectric Strength	F149	:	250 Volts/mil
m value	1/8" (3.2mm Thk)	:	3.0
y value	1/8" (3.2mm Thk)	:	2200 psi (15Mpa)

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# ARABOND 2000 EPOXY NEMA G10 BONDED STEEL

High strength dielectric sheet with steel bonding-heavy duty



## Applications & preparations:

Industrial and electrical conductivity arrestor used between high pressure rating flanges and electrical equipment to prevent electrolytic and electrical current flow, supports corrosion resistance and equipment safety. High quality Glass Fiber Epoxy (NEMA G10 or G11 grade) fiber layers are precisely warmed, glued and bonded on stainless steel plates of any grades to form a sandwich panel. This panel give high electric resistivity and high strength at the same time. Various colors and surface finishing's can be achieved as per requirements and codes of applications.

G10 / G11 Recommended for	Not Recommended for
Aliphatic and Aromatic Hydrocarbons	Anhydrous Liquid Ammonia
Transformer Oils	Conc. H2SO4
Sodium Hydroxide 15%	20% HNO3, H2SO4, NaOH
Sulphuric Acid 3% (G11)	
Sulphuric Acid 30% (G11)-Fairly at room Temp.	
Alcohol, Ketons, Benxol, Toluol	
Cryogenics	

## Operating Conditions Pure G10

Minimum Temperature (°C/°F)  
 Maximum Temperature (°C/°F)

## Color: Light Green, Black, Brown

: -156/-250  
 : 140/284

**Table 1. Physical Properties of NEMA G10**

Specific Gravity	ASTM D 792	: 1.8 g/cc
Water Absorption (max)	ASTM D 570 (24 hrs)	: 0.1%
Hardness Rockwell M	ASTM D 785	: 110
Compressive Strength	ASTM D 695	: 60000 psi
Tensile Strength	ASTM D 638 (LW)	: 50000 psi
Flexural Strength	ASTM D 790	: 65000 psi
IZOD Impact Strength LW	ASTM D 256	: 12 ft-lb/in
Shear Strength	ASTM D 732	: 21755 psi
Cold recovery	ASTM F 36	: 50-70%
Chemical Resistance		: pH 0-14
Dielectric Strength (1.6mm Thk)	ASTM D 149	: 960 volts/mil
Volume resistivity		: 6 x 10 <sup>6</sup> Mega ohm-cm



## Stainless Steel Core Material Typical Properties

Values of steel properties and composition are shown here are typical only, each supply lot will accompany separate MTC and compliance certificate showing PMI values, mechanical and physical test results.

**Table 2. Composition ranges for 316L stainless steel sheets.**

GRADE	C	Mn	Si	P	S	Cr	Mo	Ni	N
316L	Min	—	—	—	—	16.0	2.00	10.0	—
	Max	0.03	2.0	0.75	0.045	0.03	18.0	3.00	0.10

**Table 3. Mechanical properties of 316L stainless steel sheets.**

Grade	Tensile Str (MPa) min	Yield Str 0.2% Proof (MPa) min	Elong (%in50mm)min	Hardness	
				Rockwell B (HR B)max	Brinell (HB)max
316L	485	170	40	95	217

**Table 4. Physical properties for 316L grade stainless steel sheet.**

Grade	Density (kg/m <sup>3</sup> )	Elastic Modulus (GPa)	Mean Co-eff of Thermal Expansion (µm/m/°C)			Thermal Conductivity (W/m.K)		Specific Heat 0-100 °C (J/kg.K)	Elec Resistivity (nΩ.m)
			0-100 °C	0-315 °C	0-538 °C	At 100 °C	At 500 °C		
316/L/H	8000	193	15.9	16.2	17.5	16.3	21.5	500	740

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Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.



# ARANOLIC 2200 PHENOLIC LAMINATE SHEET

High strength canvas/linen based industrial laminate dielectric sheet

## Applications & preparations:

Aranolic 2200 is produced with a fine weave of cotton cloth fabrics which are mixed with phenolic resins to provide better machinability, mechanical and electrical properties. The sheets are produced by polymerization process which cannot be soften again. So, these materials are also called Thermosets. Variety of resin types and cloth materials can be used to manufacture thermoset laminates with a range of mechanical, thermal and electrical properties.



This is highly recommended for Power Electrical Industry for high voltage applications at power frequencies. High electric strength under oil, air and normal humidity. Sheets are supplied in natural color, but can supplied in black color upon

## Technical Properties

### Operating Conditions of Aranolic-2200

Maximum Temperature (°C/°F)

Color: Dark Brown, Black

: 125/257

## Table 1. Physical Properties of Aranolic 2200

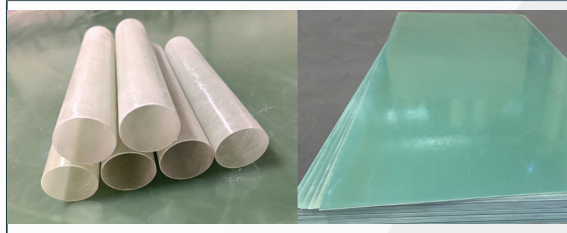
Specific Gravity	ASTM D 792	:	1.37 g/cc
Water Absorption (max)	ASTM D 570 (24 hrs)	:	2.5%
Hardness Rockwell M	ASTM D 785	:	100
Compressive Strength	ASTM D 695	:	37000 psi
Tensile Strength	ASTM D 638 (LW)	:	11000 psi
Flexural Strength	ASTM D 790	:	17500 psi
IZOD Impact Strength LW	ASTM D 256	:	1.7 ft-lb/in
Dielectric Strength (3mm Thk)	ASTM D 149	:	550 volts/mil
Arc Resistance (sec)	ASTM D 495	:	15

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## AF 2500 EPOXY NEMA G10 INSULATION SHEETS

High dielectric insulating laminate sheet glass fiber epoxy NEMA std.



### Applications & preparations:

Industrial and electrical conductivity arrester used between high pressure rating flanges and electrical equipment to prevent electrolytic and electrical current flow, supports corrosion resistance and equipment safety. High quality Glass Fiber Epoxy (NEMA G10 or G11 grade) fiber layers are precisely warmed, glued and bonded on stainless steel plates of any grades to form a sandwich panel.

This panel give high electric resistivity and high strength at the same time. Various colors and surface finishing's can be achieved as per requirements and codes of applications.

### G10 / G11 Recommended for

Aliphatic and Aromatic Hydrocarbons  
 Transformer Oils  
 Sodium Hydroxide 15%  
 Sulphuric Acid 3% (G11)  
 Sulphuric Acid 30% (G11)-Fairly at room Temp.  
 Alcohol, Ketons, Benxol, Toluol  
 cryogenics

### Not Recommended for

Anhydrous Liquid Ammonia  
 Conc. H<sub>2</sub>SO<sub>4</sub>  
 20% HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, NaOH

### Operating Conditions Pure G10

### Color: Light Green, Black, Brown

Minimum Temperature	(°C/°F)	:	-156/-250
Maximum Temperature	(°C/°F)	:	140/284



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**Table 1. Physical Properties of NEMA G10**

Specific Gravity	ASTM D 792	:	1.8 g/cc
Water Absorption (max)	ASTM D 570 (24 hrs)	:	0.1%
Hardness Rockwell M	ASTM D 785	:	110
Compressive Strength	ASTM D 695	:	60000 psi
Tensile Strength	ASTM D 638 (LW)	:	50000 psi
Flexural Strength	ASTM D 790	:	65000 psi
IZOD Impact Strength LW	ASTM D 256	:	12 ft-lb/in
Shear Strength	ASTM D 732	:	21755 psi
Cold recovery	ASTM F 36	:	50-70%
Chemical Resistance		:	pH 0-14
Dielectric Strength (1.6mm Thk)	ASTM D 149	:	960 volts/mil
Volume resistivity		:	6 x 10 <sup>6</sup> Mega ohm-cm

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## ARAFLEX 4540 EXPANDED PTFE (WHITE)

Expanded Microcellular multi directional PTFE

Applications:



### Suitable

Strong acids  
 Caustics, Hydrocarbons  
 Cryogenics  
 Glass lined equipment  
 Low bolt load FRP GRP flanges  
 Food Industry  
 Refrigerants

### Specialties

Highly compressible  
 Can fill flange surface irregularities  
 Low creep and cold flow  
 High bolt torque retention property  
 Easily compressed under lower loads  
 Chemically inert  
 Long shelf life

### Operating Conditions

Minimum Temperature	(°C/°F)	:	268/-450
Maximum Temperature	(°C/°F)	:	316/600
Maximum Continuous Temp	(°C/°F)	:	260/500
Pressure	(bar/psi)	:	85/1232

### Physical Properties

Specific Gravity	ASTM D 792	:	0.65 to 0.1 g/cm <sup>3</sup>
Compressibility	ASTM F36	:	70-80%
Recovery	ASTM F36	:	8%
Creep Relaxation	ASTM F38	:	10%
Gas permeability (cc/min)		:	<0.015
Dielectric Strength	F149	:	250 Volts/mil
m value	1/8" (3.2mm Thk)	:	3.0
y value	1/8" (3.2mm Thk)	:	2200 psi (15Mpa)

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice. Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.



[sales@araflexgasket.com](mailto:sales@araflexgasket.com)

[www.araflexgasket.com](http://www.araflexgasket.com)



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GASKETS & JOINTINGS Pvt Ltd

- ✉ [marketing@araflexgasket.com](mailto:marketing@araflexgasket.com)  
[sales@araflexgasket.com](mailto:sales@araflexgasket.com) (India)  
[salesme@araflexgasket.com](mailto:salesme@araflexgasket.com)  
[info@araflexgasket.com](mailto:info@araflexgasket.com)
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