



Product information

FLUOR-A-COM

COMMERCIAL FLUOROELASTOMER PRODUCTS



FLUOR-A-COM is available in the following product formats :-

SHEETINGS

- Thickness Stock Range** - 0.5 /1.0 /1.5 /2.0 /3.0 /4.0 /5.0 /6.0 /8.0 /10 & 12mm
- Thickness Made to Order** - 15mm - 50mm thickness
 - 12mm up to 50mm thickness in Sheets 2m x 1m
- Roll Sizes**
 - 1200mm wide x 10 metres long
 - 1200mm wide x 5 metres long (8.0mm & 10.0mm)
- Width Made to Order** - Up to a maximum 1.6 metres wide

SPECIALS

- Nomex Reinforced Insertions
- Green / Red / Blue made to order
- High Fluorine content materials

EXTRUDED 'O' RING CORDS - made to order

- Sizes** - 1.28mm to 25mm Diameter
- Colours** - Black, Green, Red & Blue

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Check out the download area of our website www.j-flex.co.uk for other product information



Clockpress Limited
 Registered in England.
 Registration No. 2448048
 Registered Office:
 St Hugh's, 23 Newport,
 Lincoln LN1 3DN

J-FLEX RUBBER PRODUCTS
Engineering Rubber Components & Specialised Sheeting Products

Unit 1, London Road Business Park, Retford,
 Nottinghamshire, England DN22 6HG
tel: +44 (0) 1777 712400 **fax:** +44 (0) 1777 712409
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Product information

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Property	Typical Values
Type	A Type Fluoroelastomer Min. 66% Fluorine Content
Specific Gravity	1.90 g/cm ³
Hardness	75° (+/-5°) Shore 'A'
Tensile Strength	8 MPa
Elongation @ Break	150 %
Compression Set 22hrs @ 175°C	30%
Working Temperature	-15°C to 250°C Continuous (Up to 315°C Intermittent)

See Physical Test Results

Chemical Resistance	
Ozone:	Excellent
Diluted Acids:	Excellent
Diluted Oils:	Excellent
Concentrated Acids:	Good
Concentrated Oils:	Good
Hydrocarbons:	Good
Organic Solvents:	Moderate

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Physical Tests Conducted by Smithers – RAPRA

Hardness, IRHD

Ageing Condition	Average Test Result FLUOR-A-COM
Unaged	70
70hrs at 180°C	74
70hrs at 220°C	74
70hrs at 250°C	77

Tensile Strength, MPa

Ageing Condition	Average Test Result FLUOR-A-COM
Unaged	5.96
70hrs at 180°C	7.63
70hrs at 220°C	8.61
70hrs at 250°C	7.99

Elongation at Break, %

Ageing Condition	Average Test Result FLUOR-A-COM
Unaged	207
70hrs at 180°C	153
70hrs at 220°C	140
70hrs at 250°C	110

Volume Swell, %

Test Fluid	Average Test Result FLUOR-A-COM
IRM 903	1.8
Fuel B	2.3
Sulphuric Acid	5.0

Chemical description of Fluor-A-Com

Fluoroelastomers in a blend of fillers, curing agents and additives according to a proprietary recipe. Composition and information of the chemicals.

ELEMENT	CAS #	Percentage %
Hexafluoropropylene – Vinylidene Fluoride Copolymer 2641	9011-17-0	71.86%
Magnesium Oxide	1309-48-4	2.52%
Calcium Hydroxide	1305-62-0	4.31%
Carbon Black	1333-86-4	21.31%

SPECIFIC PERFORMANCE DATA

	GOOD	FAIR	MODERATE	POOR
<u>MEDIUM</u>	= Suitable	= Possible loss of physical properties Volume Swell 10/20%	= Noticeable change Volume Swell 20/ 40%	Not Suitable
Water	✓			
Oxygen	✓			
IRM 903 Oil	✓ ↔ ✓			
ASTM Oil -3	✓ ↔ ✓			
ASTM Fuel 'B'	✓ ↔ ✓			
ASTM Fuel 'C'	✓ ↔ ✓			
High Octane Gasoline		✓ ↔ ✓		
Ozone & Natural Weathering	✓ ↔ ✓			
Natural Gas (Condensate)	✓			
Trichloroethylene				✓
Methanol			✓ ↔ ✓	
Ethanol			✓ ↔ ✓	
MEK				✓
Benzene		✓ ↔ ✓		
Conc. H ₂ SO ₄ (Sulphuric Acid)		✓		
Dist. H ₂ SO ₄ (Sulphuric Acid)	✓			
Conc. HCl (Hydrochloric Acid)	✓			
Dilute HCl (Hydrochloric Acid)	✓			

Disclaimer: The information presented is based on laboratory testing and does not necessarily indicate end product performance. It is recommended that users of this product conduct their own tests to confirm use in specific applications.