

# 10320-C

## Viton Fluoroelastomer

- A high grade, non-silicone elastomer, capable of withstanding the high temperature and pressure requirements of composite manufacture
- Compared to uncured silicones, Fluoroelastomers are more difficult to fabricate into complicated shapes, due to stiffness and lack of tack
- Shrinkage of the fabricated rubber tooling can be reduced by the addition of layers of fabric reinforcement - either epoxy prepreg, or Fluoroelastomer coated fabric if a more flexible part is required
- Since epoxy resin is an excellent adhesive for Fluoroelastomer, the rubber blanket or intensifier should be protected from direct contact with the resin, during the cure cycle
- Aerovac would recommend the use of either A5000CNP FEP film or MR Cast PTFE film, which can be inserted between the composite article and the rubber surface
- 10320-C Fluoroelastomer sheet is without many of the disadvantages identified in other Fluoroelastomer products. The material has excellent compression set values without the necessity of an oven post cure. It will allow fabrication of thick section parts, while reducing the chance of fissuring. It is compatible and co-curable with other high strength silicone formulations
- The physical properties shown below were obtained on 2mm thick moulded ASTM samples. They are typical of 10320-C, but they should not be used to set Quality Control specification minimum requirements

### PHYSICAL PROPERTIES

• Hardness	72 shore A
• Tensile Strength	2684 psi
• Elongation at Break	268%
• Modulus at 300% Elongation	741 psi
• Tear Strength	130 ppi
• Specific Gravity	1.81
• Compression Set	5%
	(22 Hours at 176°C)
• Colour	Black
• Mould shrinkage (%)	Length -3.4%
	Width -3.2%
	Thickness -1.8%

*Cont.*

### Aerovac Systems Ltd.

Tel: 01274 550500 Fax: 01274 550501 e-mail: [sales@aerovac.com](mailto:sales@aerovac.com) website: [www.aerovac.com](http://www.aerovac.com)

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith.

## AVAILABILITY & PACKAGING

- Thickness 1.52mm
- Standard width 1.37m
- Supplied in uncured calendered sheet form

## STORAGE & HANDLING

- For optimum life, uncured rubber should be kept refrigerated when not in use. For advice on handling and the ideal curing conditions for uncured rubbers, please contact our technical department

## Aerovac Systems Ltd.

Tel: **01274 550500** Fax: **01274 550501** e-mail: [sales@aerovac.com](mailto:sales@aerovac.com) website: [www.aerovac.com](http://www.aerovac.com)

All statements, technical information and recommendations contained in this publication are based on tests believed to be reliable, but their accuracy and/or completeness are not guaranteed. The user shall determine the suitability for this particular purpose and shall assume all risk and liability in connection herewith.