

Sealing Projex LTD Compound Reference No.

# PHARMALAST™ 643USP CLASS VI (PERFLUOROELASTOMER)



Specifically developed for use with a large range of API's and cleaning media for both CIP and CIP procedures, this white compound is the ideal material for the Pharmaceutical environment.

Both FDA compliant, and tested IN VIVO to United States Pharmacopoeia class VI, the material will continue to perform when subjected to temperatures of -10°C to +230°C.

## ▶ TYPICAL PHYSICAL PROPERTIES

| PROPERTY   | TYPICAL VALUES | TEST STANDARD |
|--|----------------|---------------|
| Colour   | White          |               |
| Hardness (°IRHD)   | 74             | ISO 48        |
| Tensile Strength (MPa)                                       | 17.2           | ISO 37        |
| Modulus @ 100%   | 9.5            | ISO 37        |
| Elongation @ Break (%)                                       | 152            | ISO 37        |
| Tear Strength (N/mm)   | 16.2           | ISO 34        |
| Specific Gravity (g/cm³)                                     | 2.42           | ISO 2781      |
| Compression Set Value in Air, 25% Strain, 24 HRS @ 204°C (%) | 9.2            | ISO 815       |

## ▶ CHEMICAL RESISTANCE

| CHEMICAL GROUP             | RATING | CHEMICAL GROUP    | RATING |
|----------------------------|--------|-------------------|--------|
| Aromatics / Aliphatic oils | 1      | Ethylene          | 1      |
| Acids                      | 1      | Esters            | 1      |
| Alkalis                    | 1      | Ketones           | 1      |
| Alcohols                   | 1      | Propylene Oxide   | 1      |
| Aldehydes                  | 1      | Steam / Hot Water | 1      |
| Amines                     | 1      | Strong Oxidisers  | 1      |
| Ethers                     | 1      |                   |        |

- 1 Suitable, little or no effect
- 2 Minor to moderate effect not maximum resistance
- 3 Moderate to severe effect-may be useful in some limited applications
- 4 Unsuitable and not recommended-severe effect

More detailed information available on request

Pharmalast™ 643USP Class VI material has passed USP systems, USP intraculaneous & USP Muscle Implantation studies when test article was extracted at 70°C for 24hrs. Although Pharmalast™ 643 USP Class VI has passed the USP IN VTO testing this material is supplied by Sealing Projex Limited as an FDA grade product only for use in non-implant devices. It is for the developers of the finished product to determine the suitability of the material for the end application and that it complies with statutory, regulatory and health care industry requirements.



We also have a wide range of perfluoroelastomers for non FDA environments

For more information, call today on:  
☎ 01942 604 107

### Further information

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