

Data Sheet

C831 O Ring

|                    |                       |
|--------------------|-----------------------|
| Data Sheet Type    | Final                 |
| Material Reference | C831                  |
| Polymer            | FKM(<66%<br>Flourine) |
| Date Issued        | 27/07/24              |



Description

A standard grade FKM co-polymer compound, based on Genuine Viton ® with a broad chemical resistance and good compression set values, suitable for high pressure sealing applications. Use with a wide range of chemicals, hydrocarbons at high temperatures, covalent or non polar solvents, fluid power and High Pressure Applications. The compound is ADI, Reach & RoHS compliant.

This product is supplied Degassed. Degassing is a process where a Rubber Viton Seal is placed in a Vacuum Oven at 180 ° C for a number of hours to remove all impurities including vapour, grease and finger marks. It is then bagged and sealed remain vapour free and clean for a minimum of 6 months. This process vastly improves sealing abilities.

| Specifications                             | Values                     | Test Methods |
|--|----------------------------|--------------|
| 100% Modulus                               | 9 MPA                      | ISO 37       |
| Compression Set                            | 20 % 24 Hrs @ 200 C        | ISO 815      |
| Elongation at Break                        | 120 %                      | ISO 37       |
| Heat Ageing - Change in Elongation @ Break | -7 % 70 Hours @ 250C       | ISO 188      |
| Heat Ageing - Change in Hardness           | +3 ° Shore 70 Hours @ 250C | ISO 188      |
| Heat Ageing - Change in Tensile Strength   | +5 % 70 Hours @ 250C       | ISO 188      |
| IRM 903 Oil - Change in Elongation @ Break | -2 % 70 Hours @ 175C       | ISO 1817     |
| IRM 903 Oil - Change in Tensile Strength   | -17 % 70 Hours @ 175C      | ISO 1817     |
| IRM 903 Oil Change in Hardness             | -1 ° Shore 70 Hours @ 175C | ISO 1817     |
| Oil Swell IRM903                           | 1.4 % 70 Hours @ 175C      | ISO 1817     |
| Shore Hardness(IRHD)                       | 88 +/-5 ° Shore            | ISO 48       |
| Tensile Strength                           | 12 MPA                     | ISO 37       |

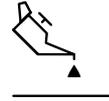
Purposes



Chemical Resistant



High Working Temperature



Oil Resistance

**Important Notes about this Material Data Sheet**

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.