Data Sheet	C831 O Ring
Data Sheet Type	Final
Material Reference	C831
Polymer	FKM(<66% Flourine)
Date Issued	02/06/26

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.