

EnDura[®] V91K

High performance ED resistant low temperature fluoroelastomer



Description

Recognising the demanding challenges in the oil and gas exploration and extraction industry, PPE has developed the most technically advanced range of elastomer materials to meet the needs of sealing applications operating in the most severe conditions.

The EnDura[®] range of elastomer materials has been specifically formulated for sealing applications in the world most aggressive, high pressure, environments. EnDura[®] V91K has been tested to international standards for Explosive Decompression (ED) resistance, making it ideal for downhole, surface and subsea oilfield equipment.

EnDura[®] V91K provides extreme low temperature performance, combined with excellent ED resistance.

Key Attributes

- ▶ Excellent Explosive Decompression resistance
- ▶ Tested to **NORSOK M710** Annex B
- ▶ Tested to **TOTAL GS PVV142** ED specification
- ▶ Tested to **NACE TM0297** ED standard
- ▶ Tested to **ISO10423 (API 6A)** Sour Gas standard
- ▶ Wide temperature range -41°C to 225°C (-42°F to 437°F)
- ▶ Excellent low temperature capability
- ▶ Broad resistance to oilfield chemicals including sour gas
- ▶ Good compression set characteristics provide long-term sealing capability

Typical Applications

Low temperature and high pressure environments
 Exploration and drilling equipment
 Completion equipment
 Subsea valves and pumps
 Compressors
 O-rings, T-section seals, special profiles and custom-made seals

Other materials in this range

EnDura[®] V91A (-51°C / -60°F)

EnDura[®] V91J (-18°C / -1°F)

EnDura[®] Z95X (HNBR)

EnDura[®] A90H (TFE/P)



Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Terpolymer
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	90
Tensile Strength (MPa)	D412	ISO37	24
Elongation at break (%)	D412	ISO37	160
Modulus @ 50% (MPa)			10
Modulus @ 100% (MPa)			15
Compression Set: 24 hrs @ 200°C (392°F)	D395	ISO815	15%
TR10	D1329		-35°C (-31°F)
Minimum Operating Temperature			-41°C (-42°F)
Maximum Operating Temperature			+225°C (+437°F)

SPECIAL NOTE: This information is to the best of our knowledge accurate and reliable. However, Precision Polymer Engineering Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life. Therefore a regular programme of inspection and replacement is strongly recommended.
 The material properties above should not be used for specification purposes.

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Quotation's and Order's you can send to: sales@oring.su
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