

EnDura[®] V91J

High performance versatile terpolymer fluoroelastomer for the oilfield industry

ENDURA[®]

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 elite materials has been specifically formulated for Explosive Decompression (ED) resistance in downhole, surface and subsea oilfield equipment.

EnDura[®] V91J provides outstanding mechanical strength and high pressure performance.

Key Attributes

- ▶ Excellent Explosive Decompression resistance
- ▶ Tested to Norsok M-710 standard
- ▶ Tested to Total specification GS PVV 142 03/01
- ▶ Tested to NACE standards: TM0297 (ED) & TM0187 (Sour Gas)
- ▶ Wide resistance to oilfield chemicals
- ▶ Versatile material with good compression set characteristics providing excellent sealing properties

Typical Applications

Low temperature and high pressure environments
 Exploration and drilling equipment
 Completion equipment
 Subsea valves and pumps
 Compressors
 Blow-out preventors (BOPs)
 Feed throughs
 O-rings, T-section seals, special profiles and custom-made seals

Other materials in this range

EnDura[®] V91A (-46°C / -51°F)

EnDura[®] V91K (-35°C / -31°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	210
Modulus @ 50% (MPa)			5.5
Modulus @ 100% (MPa)			11.0
Compression Set: 24 hrs @ 200°C (392°F)	D395	ISO815	24%
TR10	D1329		-12°C (10°F)
Minimum Operating Temperature			-17°C (-1°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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