

EnDura® V91A

Fluoroelastomer

Precision Polymer Engineering Ltd.

Message:

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® V91A provides the ultimate in low temperature performance, combined with excellent ED resistance.

Key Attributes

Excellent Explosive Decompression resistance at temperatures down to -46°C (-51°F).

Tested to Norsok M-710 standard

Tested to Total specification GS PVV 142 03/01

Tested to NACE standards: TM0297 (ED) & TM0187 (Sour Gas)

Improved resistance to methanol, sour gas, hot water, steam and oils as compared with conventional FKM compounds

Excellent compression set provides long-term sealing capability and improved leak prevention thus minimizing equipment failure

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

General Information			
Features	Low temperature resistance		
Uses	Pump parts		
	Valve/valve components		
	Seals		
	Oil/Gas Supplies		
Appearance	Black		
Hardness	Nominal Value	Test Method	
IRHD Hardness	90	ASTM D1415, ISO 48	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	130	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	19	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	Test Method
Maximum Operating Temperature	225	°C	
Low Temperature Resistance - TR10	-46	°C	
Additional Information	Nominal Value	Unit	Test Method

Minimum Operating Temperature: -46°C (-51°F)

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