

EnDura® V91K

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® V91K provides good low temperature performance, combined with excellent ED resistance.

Key Attributes

Excellent Explosive Decompression resistance

Tested to Norsok M-710 standard

Wide temperature range -35°C to 225°C (-31°F to 437°F)

Excellent low temperature capability

Wide resistance to oilfield chemicals

Good compression set provides 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

General Information			
Features	Low temperature resistance		
	Good chemical resistance		
	Oil resistance		
Uses	Pump parts		
	Low temperature application		
	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)	24.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	160	%	ASTM D412, ISO 37
Compression Set (200°C, 24 hr)	15	%	ASTM D395, ISO 815
Thermal	Nominal Value	Unit	Test Method
Maximum Operating Temperature	225	°C	
Low Temperature Resistance - TR10	-35	°C	ASTM D1329
Additional Information	Nominal Value	Unit	Test Method

Minimum Operating Temperature: -35°C (-31°F)

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

