



Overview

EP90BK41 is Canyon's extreme high temp steam, anti explosive decompression 90 shore A durometer, black EPDM.

EP90Bk41 is resistant to polar fluids but is not recommended for hydrocarbon fuels & oils. Compare to Parker E0962-90.

Features & Benefits

- L'Garde Y267 for Extreme High Temp Steam Performance
- NACE TM0297 Anti Explosive Decompression
- High resistance to weathering
- Good abrasion resistance
- Cost Effective

Service Temperature

- -55°C to 290°C (-67°F to 554°F) in water and Steam
- Steam excursions up to 315°C (600°F)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Black	Black
Hardness, Shore A	90+/-5	89
Tensile Strength, psi (MPa)		2944 (20.3)
Modulus @ 100%		942 (6.5)
Elongation		255%
Specific Gravity, g/cm ³		1.12



Table 2. Heat Aging – 168 hrs at 125°C

Test (Change)	Results
Hardness, Shore A	+6
Tensile Strength, %	-14
Elongation, %	-35

Table 3. Compression Set

Test (Change)	Specifications	Results
Permanent Set, %	24 hrs @ 135°C	23
Permanent Set, %	70 hrs @ 135°C	37

Table 4. Compression Set - Steam

Test (Change)	Specifications	Results
Permanent Set, %	168 hrs @ 250°C	37
Permanent Set, %	336 hrs @ 250°C	38
Permanent Set, %	168 hrs @ 275°C	66
Permanent Set, %	336 hrs @ 275°C	67

Table 5. 37% HCL – 168 hrs at 23°C

Test (Change)	Results
Hardness, Shore A	+5
Tensile Strength, %	+5
Elongation, %	+9
Volume, %	+1

Table 6. Seawater Aging – 70 hrs at 200°C

Test (Change)	Results
Hardness, Shore A	+0.5
Tensile Strength, %	+10
Elongation, %	+3
Volume, %	+1