KB292-95

Extreme Extrusion Resistance HNBR

Expanding Traditional Capabilities of HNBR:

In the Oil and Gas industry, high pressure applications of 10,000 psi or greater, are now common place. The seal materials used to contain these pressures are required to be tough enough to withstand the high stress and strain conditions that are created. Parker's KB292-95 compound is formulated to offer best in class resistance to extrusion for the highest of pressure applications. With an operating temperature range of -25°F to 300°F, and chemical compatibility in line with traditional hydrogenated nitrile (HNBR) compounds, KB292-95 truly expands the capabilities of this polymer family.

Contact Information:

Parker Hannifin Corporation
O-Ring & Engineered Seals
2360 Palumbo Drive
Lexington, KY 40509

phone 859 269 2351
www.parkerorings.com
www.parker.com/oes

Features & Benefits:

- Extreme High Modulus for best-in-class extrusion resistance for high pressure applications
- Operating Temperature Range from -25°F to 300°F
- Good Compression Set Resistance
- ISO 23936-2 Sour Service tested

Parker

ENGINEERING YOUR SUCCESS.

KB292 Test Report		
Original Physical Properties	**Test Method**	**KB292-95**
Hardness, Shore A, pts.	ASTM D2240	93
Tensile strength, psi	ASTM D1414	4800
Ultimate elongation, %	ASTM D1414	75
Modulus at 50% elongation, psi	ASTM D1414	2500
Specific gravity	ASTM D297	1.33
Tear strength, die B, ppi	ASTM D624	226
Tear strength, die C, ppi	ASTM D624	119
Tg, °F	ASTM D7426	-8
Compression Set		
70 hrs. @302°F	ASTM D395	22
168 hrs. @302°F	Method B	28
Fluid Immersion, Distilled Water, 70 hrs. @ 302°F		
Hardness change, Shore A, pts.	ASTM D471	-3
Volume change, %		+9
Fluid Immersion , No. 2 Diesel, 70 hrs. @ 302°F		
Hardness change, Shore A, pts.	ASTM D471	-13
Volume change, %		+21
Fluid Immersion, IRM 903, 70 hrs. @302°F		
Hardness change, Shore A, pts.	ASTM D471	-7
Volume change, %		+11

Parker has conducted pressure testing at elevated temperatures and large extrusion gaps to ensure KB292-95 will withstand the harshest of conditions. For additional information, please speak with our Applications Engineering team by calling us or chatting on line via our website.

Pressure Testing to Failure	Industry Standard HNBR	KB292-95
325°F, 0.008” extrusion gap, no back-up ring		
Failure Pressure (psi)	14,816	No failure @ 20,000
		

ENGINEERING YOUR SUCCESS.