

## **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:

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### 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



KB292 Test Report			
Original Physical Properties	Test Method	KB292-95	
Hardness, Shore A, pts.	<b>ASTM D2240</b>	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	<b>ASTM D7426</b>	-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	

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