



## Technical Data Sheet

### KB300 /IP-KB300-A80/L30

**Material:** HNBR  
**Parker Material Code:** KB300/IP-KB300-A80/L30  
**Color:** Black  
**Description:** The HNBR lip Material offers improved abrasion resistance, chemical resistance, higher operating temperature and better ozone resistance than standard NBR.

#### TYPICAL PHYSICAL / MECHANICAL / THERMAL PROPERTIES

PROPERTY	UNIT	TEST METHOD	Values
Hardness	Shore A	ASTM D2240	82
Tensile Strength at Break	psi	ASTM D412	3500
Modulus 50%	psi	ASTM D412	1000
Modulus 100%	psi	ASTM D412	2500
Elongation at Break	%	ASTM D412	140
Specific Gravity	-	ASTM D792	1.24
Compression Set 22 hours@ 212 °F	%	ASTM D395	4.5
Tear Die C	lbf/in	ASTM D624	110
DSC Glass Transition	°F	ASTM D3418	-18
Coefficient of Friction	-	ASTM D1894	0.82
Service Temperature Range	°F	Parker Internal	-18 to 320

#### Notes:

- \* We emphasize that this tabulation should be used as a guide only. It is based primarily on laboratory and service tests but does not consider all variables that can be encountered in actual use. Therefore, it is always advisable to test the material under actual service conditions before specification. If this is not practical, tests should be devised that simulate service conditions as closely as possible.
- \* Parker EPS Division also offers unique material blends and recipes along with a wide variety of other filler combinations and colors to enhance seal performance in the most extreme application needs. For guidance on material selection for extreme applications, please contact an EPS Division Application Engineer at 800-233-3900.
- \* <sup>1</sup>Samples are from Material Validation lot. Values may vary from lot to lot.



## Technical Data Sheet

### KB300 /IP-KB300-A80/L30

#### FLUID COMPATABILITY<sup>1</sup>

##### 70 HRS @ Room Temperature

<i>Media</i>	<i>Test Method</i>	<i>Shore A</i>	<i>Modulus 50% / 100% (psi)</i>	<i>Ultimate Tensile (psi)</i>	<i>Elongation ( % )</i>	<i>Weight Change</i>	<i>Volume Change</i>
Fuel A	ASTM D471	82	820 / 2315	3402	145	0%	1%
Fuel B		73	617 / 1905	1942	97	14%	21%
Fuel C		72	735 / NA	1551	83	27%	40%
Methanol		76	607 / 1727	1740	94	8%	12%
Jet Fuel A		81	746 / 2263	3328	141	2%	2%

##### 168 HRS @ 212 °F

<i>Media</i>	<i>Test Method</i>	<i>Shore A</i>	<i>Modulus 50% / 100% (psi)</i>	<i>Ultimate Tensile (psi)</i>	<i>Elongation ( % )</i>	<i>Weight Change</i>	<i>Volume Change</i>
IRM 901	ASTM D471	82	815 / 2284	3465	154	-1%	-1%
IRM 903		78	679 / 2018	3490	153	6%	8%
Mil-H-5606		77	614 / 1883	3329	156	6%	9%
Jet Oil II		75	621 / 1910	3067	143	13%	15%
Stauffer 7700		76	607 / 1848	3166	153	13%	16%
Rando HD32		82	842 / 2344	3660	154	0%	0%
EAL 224H		82	769 / 2237	3224	140	2%	2%
97% Ethylene Glycol		82	788 / 2174	3282	140	2%	2%
Distilled Water		80	690 / 1991	3222	148	3%	3%
Oven Air Age		85	925 / 2494	3559	151	-1%	-1%
Super 46		83	841 / 2429	3374	143	0%	0%

**Notes:**

- \* We emphasize that this tabulation should be used as a guide only. It is based primarily on laboratory and service tests but does not consider all variables that can be encountered in actual use. Therefore, it is always advisable to test the material under actual service conditions before specification. If this is not practical, tests should be devised that simulate service conditions as closely as possible.
- \* Parker EPS Division also offers unique material blends and recipes along with a wide variety of other filler combinations and colors to enhance seal performance in the most extreme application needs. For guidance on material selection for extreme applications, please contact an EPS Division Application Engineer at 800-233-3900.
- \* <sup>1</sup>Samples are from Material Validation lot. Values may vary from lot to lot.