Parker Hannifin Corporation
EPS Division
Tel: 800-233-3900
www.parker.com/eps

Technical Data Sheet
2412/ VB280-A90 / L16

Material: FKM
Parker Material Code: 2412/VB280-A90/L16
Color: Black

Description: FKM lip material offers outstanding resistance to high heat. Excellent resistance to oil, gasoline, petroleum hydraulic fluids and hydrocarbon solvents. Very good impermeability to gases and vapors. Very good resistance to flame, weather, oxygen, ozone and sunlight. Very little resistance to oxygenated solvents. Poor tear resistance.

TYPICAL PHYSICAL / MECHANICAL / THERMAL PROPERTIES

PROPERTY	*UNIT*	*TEST METHOD*	Typical Values
Hardness	Shore A	ASTM D2240	92
Tensile Strength at Break	psi	ASTM D412	2500
Modulus 50%	psi	ASTM D412	1200
Modulus 100%	psi	ASTM D412	2100
Elongation at Break	%	ASTM D412	130
Specific Gravity	-	ASTM D792	1.96
Compression Set 22 hours @ 212 °F	%	ASTM D395	37
Tear Strength – Die C	lbf/in	ASTM D624	148
Glass Transition Temperature	°F	ASTM D3418	10
Coefficient of Friction	-	ASTM D1894	0.341
Service Temperature Range	°F	Parker Internal	10 to 400

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.
* [1]Samples are from Material Validation lot. Values may vary from lot to lot.

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FLUID COMPATIBILITY[1]

70 HRS @ Room Temperature

Media	*Test Method*	*Shore A*	*Modulus 50% / 100% (psi)*	*Ultimate Tensile (psi)*	*Elongation (%)*	*Weight Change*	*Volume Change*
Fuel A	ASTM D471	91	982 / 1474	1454	96	0%	0%
Fuel B		87	933 / 1440	1599	129	0%	1%
Fuel C		90	915 / 1420	1566	117	0%	2%
Methanol		82	493 / 749	963	194	3%	8%
Jet Fuel A		91	825 / 1290	1499	133	1%	1%

168 HRS @ 212 ºF

Media	*Test Method*	*Shore A*	*Modulus 50% / 100% (psi)*	*Ultimate Tensile (psi)*	*Elongation (%)*	*Weight Change*	*Volume Change*
IRM 901	ASTM D471	92	898 / 1461	1754	131	0%	0%
IRM 903		92	940 / 1470	1626	123	0%	1%
Mil-H-5606		93	828 / 1268	1630	156	1%	2%
Jet Oil II		91	867 / 1339	1610	146	1%	2%
Stauffer 7700		90	842 / 1296	1576	160	1%	3%
Rando HD32		93	901 / 1464	1677	133	1%	1%
EAL 224H		93	827 / 1364	1703	137	1%	2%
97% Ethylene Glycol		91	722 / 1067	1406	169	1%	2%
Distilled Water		94	986 / 1369	1521	127	2%	2%
Oven Air Age		92	1046 / 1725	1832	111	0%	0%
Super 46		91	1033/1837	2219	141	0%	1%

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