

## Technical Data Sheet 2160/ IP-2160-A75 / L21

Material: Parker Material Code: Color: Description:

EPDM 2160/IP-2160-A75/L21 Black Excellent heat, ozone and sunlight resistance. Very good low temperature flexibility, good resistance to alkalis, acids and oxygenated solvents. Provides improved resistance to water and steam in applications where NBR and FKM exhibit poor service life. Good replacement for FKM where solvents are a problem. Not recommended for petroleum oil.

## **TYPICAL PHYSICAL / MECHANICAL / THERMAL PROPERTIES**

PROPERTY	UNIT	TEST METHOD	Typical Values
Hardness	Shore A	ASTM D2240	73
Tensile Strength at Break	psi	ASTM D412	2500
Modulus 50%	psi	ASTM D412	450
Modulus 100%	psi	ASTM D412	950
Elongation at Break	%	ASTM D412	250
Specific Gravity	-	ASTM D792	1.14
Compression Set 22 hours @ 212 °F	%	ASTM D395	42.7
Tear Strength – Die C	lbf/in	ASTM D624	220
Glass Transition Temperature	°F	ASTM D3418	-56
Coefficient of Friction	-	ASTM D1894	1.67
Service Temperature Range	٥F	Parker Internal	-56 to 300

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>\* &</sup>lt;sup>1</sup>Samples are from Material Validation lot. Values may vary from lot to lot.



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FLUID COMPATIBILITY <sup>1</sup>										
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	55	316 / 861	1137	124	N/A	N/A			
Fuel B		55	310 / 825	1006	115	N/A	N/A			
Fuel C		53	360 / 862	867	94	N/A	N/A			
Methanol		75	324 / 639	2364	334	3%	4%			
Jet Fuel A		52	364 / 914	843	98	N/A	N/A			
168 HRS @ 212 °F										
Media	Test Method	Shore A	Modulus 50% / 100% (psi)	Ultimate Tensile (psi)	Elongation (%)	Weight Change	Volume Change			
IRM 901	ASTM D471 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	40	201 / 594	1285	180	N/A	N/A			
IRM 903		38	213 / 647	780	122	N/A	N/A			
Mil-H-5606		32	199 / 568	581	98	N/A	N/A			
Jet Oil II		73	416 / 927	2558	257	2%	1%			
Stauffer 7700		60	250 / 672	2527	276	18%	21%			
Rando HD32		42	156 / 511	1021	145	N/A	N/A			
EAL 224H		56	190 / 490	2153	288	25%	32%			
97% Ethylene Glycol		77	447 / 974	2609	251	1%	1%			
Distilled Water		78	344 / 744	2464	273	2%	2%			
Oven Air Age		78	408 / 825	2223	223	-1%	-1%			
Super 46		43	164 / 525	1075	160	N/A	N/A			

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