

Description:

- Closed Cell Expanded Neoprene, EPDM, SBR, Blend.
- Black in color
- Excellent physical properties including abrasion and low temperature resistance. Fair resistance to petroleum based fluids

revised 6-20-03
revised 10-06-05
revised 12-12-06

Typical Physical Properties

Series Product Designation Physical Properties		Test Method	1040 NN-1	1060 NN-3	1080 NN-5
Density:	lb/ft ³ g/cm ³	ASTM D-1056	6 ± 2 0.096 ± 0.032	9 ± 2 0.144 ± 0.032	19 ± 4 0.304 ± 0.064
Hardness	Durometer Shore 00	ASTM D-2240	45 ± 5	60 ± 5	70 ± 5
Compression Deflection	25% psi kPa	ASTM D-1056	3.5 ± 1.5 24 ± 10	11 ± 2 76 ± 14	21 ± 4 145 ± 28
Compression Set	%	ASTM D-1056	<40	<30	<25
Tensile Strength	psi kPa	ASTM D-412 (Die A)	75 520	100 690	150 1030
Tear Strength	lb/in kN/m	ASTM D-624 (Die C)	9.6 1.7	12 3.2	35 6.1
Elongation	Typical Properties %	ASTM D-412 (Die A)	125	125	175
Resilience	%	ASTM D-2632	35	25	15
Service Temperature	Low °F High Continuous °F High Intermittent °F	ASTM D-746	-40 200 250	-40 200 250	-40 150 200
Water Absorption	maximum Weight change %	ASTM D-1056	< 5	< 5	< 5
Fluid Immersion:	7 days @ 23° C (73.4° F) ASTM Ref. Fuel B, weight change max. %	ASTM D-1056	Not Applicable	Not Applicable	<150
Accelerated Aging	7 days @ 70° C (158° F)				
Flexibility:	180° bend without cracking Appearance Change Change in Compression - deflection	ASTM D-1056	Pass none ± 30%	Pass none ± 30%	Pass none ± 30%
Combustion Characteristics		FMVSS -302 UL 94HF-1	Pass Pass	Pass Pass	Pass

RESISTANCE TO:

Acid	Excellent
Alkalis	Excellent
Gasoline & Oil	Fair
Aromatic Hydrocarbons	Fair
Ketones	Fair
Chlorinated Solvents	Poor
Oxidation	Excellent
Ozone	Excellent

FLAME RESISTANCE:

(Refers to suffix letter "M")
ASTM D6576
MVSS-302 Self-Extinguishing

FLAME RESISTANCE:

U.L. 94-HF-1 Underwriters, Inc.



To the best of our knowledge this published information is accurate, however, to determine suitability of material/product for a specific application is the user's responsibility. Williams Products, Inc. shall not be liable for any loss or damage resulting from inappropriate usage.

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