



# Williams Products, Inc

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## Everlastic® Closed Cell Neoprene Types NN-1, NN-2, NN-3, NN-4, NN-5

### Description:

Closed Cell Expanded Neoprene Rubber. Black in color. Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum based fluids.

### Typical Physical Properties:

\* STOCK MATERIAL \*\* SPECIAL ORDER

Product Designation	1040 NN-1*	1050 NN-2*	1060 NN-3*	1070 NN-4**	1080 NN-5*
ASTM Designation D 1056 - 68 D 1056 - 78 D 1056 - 85 Suffix Letters	SCE - 41 RE - 41 2A1/2C1 CE1P2MP	SCE - 42 RE - 42 2A2/2C2 CE1P2MP	SCE - 43 RE - 43 2A3/2C3 CE1P2MP	SCE - 44 RE - 44 2A4/2C4 CE1P2MP	SCE - 45 RE - 45 2A5/2C5 CE1P2MP
MIL R - 6130C Type/Grade Condition	II - A Soft	II - A Soft - Medium	II - A Medium	II - A Medium-Firm	II - A Firm
Physical Properties Color	Black (Gray)	Black (Gray)	Black (Gray)	Black (Gray)	Black
Compression - Deflection 25% defl. (psi) (kN/m2)	2 - 5 (14 - 35)	5 - 9 (35 - 63)	9 - 13 (63 - 91)	13 - 17 (91 - 119)	17 - 25 (119 - 168)
Ultimate Tensile Strength	75 psi.	100 psi.	100 psi.	150 psi.	150 psi.
Elongation: Typical Properties%	175 %	175 %	200 %	150 %	125 %
Density: lb./ft3	6 +/- 2 0.10 +/- 0.03	7 +/- 2 0.11 +/- 0.03	10 +/- 2 0.16 +/- 0.03	20 +/- 4 0.32 +/- 0.06	24 +/- 6 0.12 +/- 0.02
Fluid Immersion: 7 days @ 73°F Ref. Fuel B, weight change max. %	5 %	5 %	5 %	5 %	5 %
Accelerated Aging: 7 days @ 73°F Flexibility: 180° bend w/o cracking Appearance Change Change in compression-deflection	Pass None +/- 30%	Pass None +/- 30%	Pass None +/- 30%	Pass None +/- 30%	Pass None +/- 30%
Maximum Weight %	5	5	5	5	5
Odor	No objectionable odor	No objectionable odor	No objectionable odor	No objectionable odor	No objectionable odor
Service Temperature Low High Continuous High Intermittent	-40°F 200°F 250°F	-40°F 200°F 250°F	-40°F 200°F 250°F	-40°F 200°F 250°F	-40°F 200°F 250°F

2C1 & 2C5 refers to oil resistance (medium swell)

<b>Resistance To</b>	<b>Performance</b>
Acid	Excellent
Alkali	Excellent
Gasoline & Oil	Good
Aromatic Hydrocarbons	Fair
Ketones	Fair
Chlorinated Solvents	Poor
Oxidation	Excellent
Ozone	Excellent
Flame Resistance	FMVSS.302, U.L. 94 HF - 1 Refers to suffix letter "M" Mil. R-6130C MVSS-305 Self Extinguishing



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