



NEWTC COMPOUND
NG03
Perfluoroalkoxy Resin (PFA)

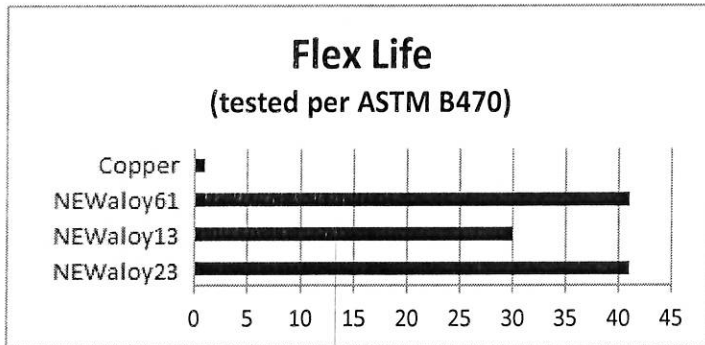
PROPERTIES	TYPICAL VALUES	TEST METHODS
SPECIFIC GRAVITY	2.12 - 2.17	ASTM D-792
HARDNESS (Shore D Durometer)	55	ASTM D-2240
TENSILE STRENGTH (psi)	3600	ASTM D-3307
ELONGATION (%)	300	ASTM D-3307
FLEXURAL MODULUS (psi)		
@ 23 °C	85000	ASTM D-790
@ 250 °C	8000	
MIT Folding Endurance (cycles)		
0.007-.008 in	15000	ASTM D-2176
DIELECTRIC STRENGTH (volts/mil)		
10 mil	2000	ASTM D-149
DIELECTRIC CONSTANT		
@ 60 - 10 ⁶ Hz	2.03	ASTM D-150
DISSIPATION FACTOR		
@ 60 - 10 ⁶ Hz	0.0001	ASTM D-150
VOLUME RESISTIVITY (ohm-cm)	10 ¹⁸	ASTM D-257
WATER ABSORPTION, 24 hr (%)	<0.03	ASTM D-570
LIMITING OXYGEN INDEX (%)	>95	ASTM D-2863
CONTINUOUS SERVICE TEMPERATURE (°C)	250	UL 1581
UPPER SERVICE TEMPERATURE (°C)	260	

New England Wire Technologies Corporation Material Data Sheet	Typical Properties for NG03	Issue Date 3/28/2012
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**NEWTC CONDUCTOR
 NEWALOY 61**

New England Wire Technologies Corporation's designated conductor material NEWaloy 61 is a high strength, high conductivity alloy used in fine wire applications where high yield strength, high flex life and good electrical properties are desired.



*Relative flex life is based on the average flex life of unjacketed, stranded material. Actual flex life may vary based on strand construction.

TENSILE STRENGTH (Minimum)

Soft 40,000 psi
 Hard 85,000 psi

YIELD STRENGTH (Typical, 1% offset)

Soft 20,000 psi
 Hard 80,000 psi

ELONGATION (Typical, % in 10")

Soft 10-25%
 Hard 1%

ELECTRICAL CONDUCTIVITY (IACS-Nominal)

80%

RESISTIVITY (Maximum, ohms-circ mil/ft)
 uncoated or silver coated

12.96

NEWaloy 61 can be supplied uncoated, tin coated or silver coated in hard or annealed (soft) state

New England Wire Technologies Corporation Material Data Sheet	Typical Properties for NEWALOY 61	Issue Date 5/19/2014
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