

## NEWTC COMPOUND NG03

Perfluoroalkoxy Resin (PFA)

PROPERTIES	Periluoroaikoxy Resili	TYPICAL VALUES	TEST METHODS
SPECIFIC GRAVITY		2.12 - 2.17	ASTM D-792
HARDNESS (Shore D Durome	ter)	55	ASTM D-2240
TENSILE STRENGTH (psi)		3600	ASTM D-3307
ELONGATION (%)		300	ASTM D-3307
FLEXURAL MODULUS (psi) @ 23 °C @ 250 °C		85000 8000	ASTM D-790
MIT Folding Endurance (cycles 0.007008 in		15000	ASTM D-2176
DIELECTRIC STRENGTH (volt	ts/mil)	2000	ASTM D-149
DIELECTRIC CONSTANT @ 60 - 10 <sup>6</sup> Hz		2.03	ASTM D-150
DISSIPATION FACTOR  @ 60 - 10 <sup>6</sup> Hz		0.0001	ASTM D-150
VOLUME RESISTIVITY (ohm-cm)		10 <sup>18</sup>	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	Typical Properties for	Issue Date	
Material Data Sheet	NG03	3/28/2012	

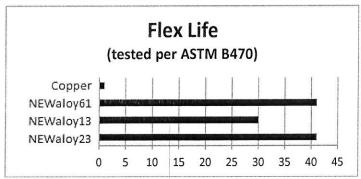
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## NEWTC CONDUCTOR NEWALOY 61

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
TENSILE STILLIOT (IVIIIIII III)	Hard	85,000 psi
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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)		12.96
uncoated or silver coated		

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

Typical Properties for	Issue Date
NEWALOY 61	5/19/2014

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