

	Mar-Mac Industries, Inc. 229 Mar Mac Wire Rd. McBee, SC 29101 843-335-5000	<b>Title:</b> Premium Plastic Coated Wire Ties	
		<b>MQS Doc No.</b> 6349	
		<b>Product Grouping:</b> Premium Wire Ties	
		<b>Origin Date:</b> 12/10/19	<b>Rev. No.</b> 002 - 9/15/2023
		<b>Responsible Person:</b>	Tracy Gooding

**Premium Plastic Coated Wire Tie (Loop Tie) Certification**

**Standard Requirements:**

Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties are drawn, annealed, coated, formed, and packaged in the USA and comply with “Buy American” and “Buy America” standards. Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties conform to the ASTM A853 specification and to the ASTM A775 specification, appendix section X1.3.13. (The AASHTO designation M-284M/M 284 has been superseded by ASTM A775). Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties also conform to the requirements of “American Iron and Steel (AIS)” as outlined in provisions P.L. 113-76, the Consolidated Appropriations Act, 2014 and also conforms to the requirements of Division A, Title VII, Section 746 of the Consolidated Appropriations Act of 2017.

**Chemical Requirements:**

Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties are produced using a C1006 or C1008 grade of steel as specified in ASTM A510 and ASTM A1040.

**Physical Requirements:**

**Wire Ties** – Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties can be provided in lengths of 4” to 10”. The core wire used to produce Mar-Mac Industries, Inc. Premium Wire Ties is annealed in a “dead soft” annealing cycle. The wire used is annealed to a tensile range of 40,000psi to 54,000psi. The final tensile range after processing and plastic coating will be 40,000psi to 60,000psi.

**Core Wire Diameter:**

14 Gauge		15 Gauge		16 Gauge		16.5 Gauge	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
.079”	.081”	.071”	.073”	.062”	.064”	.057”	.059”

**Coating** – Mar-Mac Industries, Inc. plastic coated wire ties are coated with a bonded HDPE (High-Density Polyethylene). Polyethylene is considered a dielectric material with a dielectric constant of 2.25. The thickness of the coating is 7 mils +/- 2.

**Overall Diameter:**

14 Gauge		15 Gauge		16 Gauge		16.5 Gauge	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
.092”	.096”	.084”	.088”	.075”	.079”	.070”	.074”

**Packaging Requirements:**

Mar-Mac Industries, Inc. Premium Plastic Coated Wire Ties are typically supplied in 5,000 piece count bundles but other count configurations may be available.

Additional technical questions in regard to Mar-Mac Industries, Inc. Premium Plastic Coated Wire Tie products can be directed to:

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