

TECHNICAL PROPERTIES



2023 AREMA
RECOMMENDATION

COLOR	MATTE BLACK	NONE
WEIGHT LBS.	200	TYPICALLY 185-320
MODULUS OF ELASTICITY, PSI (4-POINT TEST)	350,000 (200,000)	TYPICALLY 150,000-200,000
MODULUS OF RUPTURE, PSI (4-POINT TEST)	6,000 (5,000)	> 2,500
COEFFICIENT OF THERMAL EXPANSION IN/IN/°F	7.495 E-05	< 7.5 E-05
SPIKE PULLOUT LBF	2,700	> 1,900
SPIKE LATERAL RESTRAINT LBF	2,400	NONE
ELECTRICAL IMPEDANCE OHMS	333,333	> 20,000
RAIL SEAT COMPRESSION IN, ELASTIC, PLASTIC	0.224, 0.046	< 0.25, < 0.125
RAIL SEAT POSITIVE BENDING 26,250 LBF	PASSED	ENGINEER'S DISCRETION FOR APPLIED LOAD
FLEXURAL FATIGUE 1 MILLION CYCLES	PASSED	NONE
BALLAST BOX FATIGUE TEST 100MGT 1.5M CYCLES	PASSED	NONE
TritonTies.com		



ENGINEERED FOR THE LONG HAUL.

The Triton Tie is a fiber-reinforced polymer composite tie. The design provides superior performance and cost savings with its proprietary formula and improved extrusion process.

- » Best in class cost performance
- » Manufactured with world leading extrusion technology
- » Custom manufacturing process provides better utilization of reinforcement
- » Vertically integrated with its own source of plastic
- » Can be interspersed with existing wood crossties for optimal capital management
- » Installation requires no specialized equipment
- » Can customize performance for customer application: 3500-10000psi MOR, 200-500ksi MOE available



NOMINAL DIMENSIONS

