

Polystrand ThermoBallistic™ TBA9010X X-Ply Cross-Ply Polypropylene-Aramid Composite

Category : Polymer , Tape , Thermoplastic , Polypropylene (PP)

Material Notes:

2-Ply with Fiber Orientation at 0° & 90°. Polystrand ThermoBallistic laminates combine continuous structural fibers with a proprietary polypropylene thermoplastic polymers to form sheets, ribbons or tapes that can be subsequently molded to create end-use applications including ballistic and blast panels to protect troops, vehicles, equipment and buildings. The Polystrand materials and process technologies combine continuous structural fibers with an energy-dissipating matrix of thermoplastic polymer. This results in a reinforced thermoplastic composite that has many advantages compared to traditional, more brittle thermosetting polymer composites in ballistic panels. The many performance benefits of Polystrand ThermoBallistic materials include: Exceptional Energy Management Properties (ballistic, blast and high strain-to-failure) Improved V50 Performance Against a 30 Caliber FSP (ThermoBallistic E) Lighter Weight (automotive, aircraft and defense applications) X-Ply™ 0/90 Laminates up to 50" x 100" (1.27m x 2.54m) and rolls 100% Recyclable (no material waste) Reduced Molding Cycles (higher productivity and lower cost) Re-Formable (panels can be reconfigured multiple times) Design Flexibility (fiber selection and fiber orientation) Information provided by Polystrand.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polystrand-ThermoBallistic-TBA9010X-X-Ply-Cross-Ply-Polypropylene-Aramid-Composite.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
Filler Content	92 %	92 %	Aramid; ASTM D2584
Thickness	254 microns	10.0 mil	

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