

Quadrant Plastic Composites GMT Glass-Mat-Reinforced Thermoplastic

Category : Polymer , Thermoplastic

Material Notes:

This semi-finished product in panel form was developed primarily as a substitute for metals (steel, aluminum etc.) and its main purchasers can be found in the automotive industry. This is where it is frequently pressed on the industrial scale into complex 3D structural components, although it is also used as panels. Classic GMT materials consist of glass fiber mats manufactured to the company's own patents and impregnated with polypropylene in a second process step. The result is lightweight composite materials with outstanding impact resistance but benign crash behavior. Its low relative density, excellent hardness and rigidity even at low temperatures, resistance to moisture and chemicals, durability and ease of recycling have established GMT as an extremely successful alternative to such materials as plywood and other industrial materials. The GMT materials manufactured by QPC are based on polypropylene, polyamide, and thermoplastic polyester. Custom colors, including translucent, are available. Water resistant, and very good impact resistance (ductile, and excellent resistance to rot, corrosion and mildew.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-Plastic-Composites-GMT-Glass-Mat-Reinforced-Thermoplastic.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	35.0 - 140 MPa	5080 - 20300 psi	MD; ISO 527 / PA_098
Elongation at Break	2.0 - 2.7 %	2.0 - 2.7 %	MD; ISO 527 / PA_098
Tensile Modulus	3.30 - 8.30 GPa	479 - 1200 ksi	MD; ISO 527 / PA_098
Charpy Impact Unnotched	4.00 - 12.0 J/cm ² @Thickness 4.0 mm	19.0 - 57.1 ft-lb/in ² @Thickness 0.16 in	MD; ISO 179-12fn / PA_097

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