



## GoldMember™ Pre-tensioned Fiber Reinforcements

### Added Strength and Rigidity for Your Products

GoldMember fiber reinforcements are available in ribbon, tape and rounds that can be applied to thermoplastic and thermoset plastics, as well as wood and metals to add strength, rigidity, and flexibility without adding excessive weight.

These materials are ideal for reinforcing:

- Truck floors
- Plastic wood deck or dock boards
- Attaching to, or embedding into, plastic top rails, spindles and posts for fences
- Sign and lamp posts
- Embedding as strength members inside fiberglass boats
- Support members in SMC vehicle hood and fenders
- Plastic pallets and containers
- Adding to RIM pre-forms
- Snowboards, snow skis, water skis and hockey sticks
- Scaffolding planks and high strength composite pipes
- Glued and laminated wood composite structural members

### GoldMember Benefits

#### Thermoplastics

- Strengthen thermoplastic extrusions
- Convert decorative products into structural members
- Stiffen thermoformed "sandwich" plastics
- Increase the durability of molded products
- Help thermoplastics endure elevated temperatures

#### Thermosets

- Increase the rigidity in areas of BMC and SMC moldings
- Increase the modulus in pultruded profiles
- Keep high gloss surface with high strength inside
- Give strength to castings
- Place high strength only in the areas that need it

#### Wood and Metals

- Give added strength and energy absorption to metals
- Reduce weight in metal support members
- Reduce the weight and space of wood products
- Increase the strength of wood products
- Improve performance in gluelam beams.



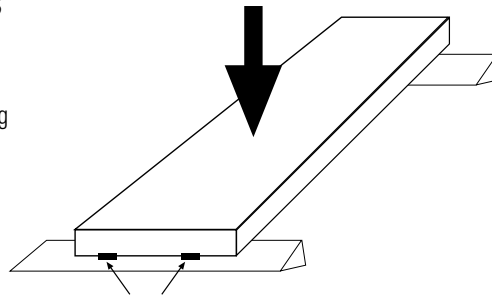


## GoldMember™

GoldMember Typical Performance Values			
Property of a .020" thick aramid/glass combination	MINIMUM	MAXIMUM	MEAN
Water Absorption	5.55	6.39	5.89
Specific Gravity	1.62	1.66	1.64
Tensile Strength (PSI) 1" wide x .020" thick	102,478	119,118	112,050 2200 lbs.
Tensile Modulus (Psi x 10 <sup>6</sup> )	6.62	7.31	6.66
Property of a .030" thick fiberglass reinforced	MINIMUM	MAXIMUM	MEAN
Water Absorption	.595	.838	.699
Specific Gravity	2.191	2.224	2.208
Tensile Strength (PSI) ¾" wide x .030" thick	168,817	183,822	176,852 4100 lbs.
Tensile Modulus (Psi x 10 <sup>6</sup> )	6.07	7.13	6.96

### GoldMember Specifications

- Formed in ribbon, tape and rounds.
- From .020" thick
- With or without coating for thermoplastic bonding
- Reinforced with:
  - 100% Aramid fibers
  - Aramid and fiberglass mix
  - Carbon and fiberglass mix
  - Aramid and carbon mix



Comparison of a reinforced product The material had two ¾" wide x .030" thick fiberglass strips on the bottom only.			
	LOAD AT FAILURE	DEFLECTION AT FAILURE	PROJECTED DEFLECTION 200 LBS. ON A 60" SPAN
Not Reinforced	395 lbs	1.86"	2.38"
GoldMember Reinforced .020" Aramid and Fiberglass	1260 lbs.	2.44"	1.29"
GoldMember Reinforced .030" Fiberglass	1650 lbs.	3.50"	1.20"
GoldMember Reinforced .030" Aramid	1640 lbs.	2.74"	1.17"

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