

Glastic GoldMemberâ„„ç Pre-tensioned Fiber Reinforcements

Category : Other Engineering Material , Composite Fibers

Material Notes:

GoldMemberâ„„ç fiber reinforcements are available in ribbon, tape and rounds that can be applied to thermoplastics and thermoset plastics, as well as wood and metals to add strength, rigidity, and flexibility without adding excessive weight. Information provided by Glastic Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Glastic-GoldMember-Pre-tensioned-Fiber-Reinforcements.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 - 1.66 g/cc	1.62 - 1.66 g/cc	Aramid/Glass
	@Thickness 0.508 mm	@Thickness 0.0200 in	
	2.191 - 2.224 g/cc	2.191 - 2.224 g/cc	Fiberglass Reinforced
	@Thickness 0.762 mm	@Thickness 0.0300 in	
Water Absorption	0.595 - 0.838 %	0.595 - 0.838 %	Fiberglass Reinforced
	@Thickness 0.762 mm	@Thickness 0.0300 in	
	5.55 - 6.39 %	5.55 - 6.39 %	Aramid/Glass
	@Thickness 0.508 mm	@Thickness 0.0200 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	707 - 821 MPa	102000 - 119000 psi	1"x 0.020" Aramid/Glass
	1160 - 1270 MPa	169000 - 184000 psi	
Tensile Modulus	41.9 - 49.2 GPa	6070 - 7130 ksi	Fiberglass Reinforced
	@Thickness 0.762 mm	@Thickness 0.0300 in	
	45.6 - 50.4 GPa	6620 - 7310 ksi	Aramid/Glass
	@Thickness 0.508 mm	@Thickness 0.0200 in	

Descriptive Properties	Value	Comments
Deflection at Failure in.	1.86	Not Reinforced
	2.44	0.020" Aramid/Glass, two 3/4" wide strips on bottom
	2.74	0.030" Aramid, two 3/4" strips on bottom
	3.5	0.030" Fiberglass, two 3/4" wide strips on bottom
Load at Failure, lbs	1260	0.020" Aramid/Glass, two 3/4" wide strips on bottom

Descriptive Properties	Value	Comments
	1650	0.030" Aramid, two 3/4" wide strips on bottom
	1650	0.030" Fiberglass, two 3/4" wide strips on bottom
	395	Not Reinforced
Projected Deflection, 200lbs on a 60" span, in.	1.17	0.030" Aramid, two 3/4" strips on bottom
	1.2	0.030" Fiberglass, two 3/4" strips on bottom
	1.29	0.020" Aramid/Glass, two 3/4" strips on bottom
	2.38	Not Reinforced

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