



BIOMID®



- . 100% HIGHLY CRISTALLINE CELLULOSE FIBER
- . Made of Lumber Industry by-products
- Obtained by mechanical process(unlike Viscose rayon which is obtained by chemical reaction)
- . BIOMID® is a 11 μ filament diameter , 183 Tex roving Bobbins of 1 / 3 / 4.5 kgs

iviain reutures of BIOMID®Fiber

- Almost half the weight of glass fiber, on-par in density with Aramid fiber
- . Stable to 360°C, or about double most thermoplastics and native natural fibers
- . Specific properties of BIOMID® laminates are often higher than those made of glass fiber
- . Much less abrasive than glass fiber
- . Translucent and Odourless (not opaque like traditional natural fibers)
- Volume of 183 Tex BIOMID® is similar to 3K Carbon fiber

1420 denier Aramid fiber940 denier HMPP fiber300 Tex e-glass roving

Comparison of BIOMID® Fiber with Glass and Bast Fibers

Property	Glass Fiber	BIOMID®	Traditional	Comments	
			Natural		
			Fibers		
Light weight	2.54	1.5	1.5	Almost Half the weight	
Renewable	No	Yes	Yes	Glass is a mineral fiber	
Abrasive	Yes	No	No	Better worker comfort	
Biodegradable	No	Yes	Yes	End of service life disposal	
Uniform Properties	Yes	Yes	No	Uniform fiber = Uniform properties	
Continuous	Yes	Yes	No	Better Load transfer	
Thermal decomposition T°	High	High	Low	Permits use with higher melting	
				point / curing resins	
Laminate	Translucent	Translucent	Opaque	Familiar appearance	

LAMINATE PROPERTIES

Construction: Plain weave fabrics, 11 layers, 3mm thickness

Resin system: VE resin, Press moulded, 50% resin content, post cured

Fiber	Tensile Strength ASTM D638	Flexural Strength ASTM D790	Flexural Modulus ASTM D790	Density
Reference: Common FLAX	86 MPa	136 MPa	7.3 GPa	1.22
100 % BioMid®	144 Mpa	237 MPa	9.6 GPa	1.23
50% BioMid®/ 50% E-glass	243 MPa	398 MPa	16.6 GPa	1.49

^{*}Results can vary with different constructions, resins, curing conditions, etc...

Cost: BIOMID® /GLASS SIOMID® FLAX