Comfil BIO4M® 10256

Revised: 22.08.2022

Description

Comfil BIO4M® yarns are made from continuous PLA fibers commingled with continuous PLA matrix filaments and is also called SRPLA. The material is 100% PLA without glue or additives. BIO4M® yarns can easily be consolidated into composites by heating the material above the matrix filaments melting point.

Application

BIO4M® yarn is fully biosourced and biodegradable and typically used for the following composite processes: weaving, knitting, twisting, braiding, winding, pultrusion, pulextrusion and stitching. Comfil hybrid yarns are delivered free of external sizing, and with a round yarn profile.
BIO4M® yarn is 100% recyclable in all categories: chemical and mechanical.

Packaging and storage

Hybrid yarns are typically delivered on 73 mm Ø interior cardboard tubes with a 5 kg netto weight. Other dimensions available upon request.
Storage area should be shielded from direct sunlight and kept at ambient temperature below 40° C

Specifications

Reinforcement fiber	High tenacity PLA
Matrix material	Low melting PLA
Linear density of hybrid yarn, tex	165
Weight reinforcement, %	50
Volume reinforcement, %	50

Typical Properties

Service temperature, C°	< 60—80
Matrix melting range, C°	160-170
Hybrid yarn density, g/cm^3	1,24

COMFIL
Thermoplastic Composites