



PHA MULTIFILAMENT YARNS

100% BIO-BASED MARINE AND SOIL COMPOSTABLE

PHA's is a family of natural polymers that includes P3HB, PHBV, PHHx, etc. It allows a wide range of properties that can be tailor made to suit the final application.

The production of PHA uses organic waste streams and other renewable and recycled resources. PHAs are produced through a fermentation process using various renewable feedstocks like food left-overs.

PHA is biodegradable in various environments, including soil, freshwater, and marine water.

Unlike PLA, it doesn't need composting facilities to degrade; it can naturally degrade in the environment, even faster than sugarcane residue products.

Experimental evidence has shown that PHA can completely disappear in the ocean in just 58 days, being degraded by microorganisms into carbon dioxide and water.

- Denier range: 400-6000 den.
- Flat (Intermingled) - Twisted (35-200 Tpm) or Air-jet textured
- Better temperature resistance than PLA
- Melting point 160-180°C
- Excellent biocompatibility
- Local feedstock production
- Density of 1,25g/cm³



marc@polisilk.com / esther@polisilk.com

www.polisilk.com

Camí de Salelles s/n, Pol. Industrial Salelles, 08253 Sant Salvador de Guardiola, Barcelona, Spain, T. 93 835 80 37