bioextrax

Technical Data Sheet

Polyhydroxybutyrate-co-valerate (PHBV) SPF booster

Overview

An aqueous dispersion of PHBV microspheres that boosts SPF performance by 20–30 % (formulation dependent). Compatible with most organic UV filters, the microspheres scatter incident light to maximize absorption efficiency, reducing the concentration of active UV filters required.

Key benefits: Biodegradable alternative to synthetic SPF boosters · Keeps UV filters uniformly dispersed · Compatible with both water and oil-based formulation · No skin penetration · Mattifying agent

Physicochemical properties

Appearance	Milky white liquid
Supply form (wt%)	25 wt%
Biobased	100 %
Particle shape	Spheroidal
Particle size	d50 = 2.5 µm
Biodegradable	OECD 301F
Average Molecular Weight, Mw (g/mol)	550,000–600,000

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