

Technical Data Sheet

Polyhydroxybutyrate-co-valerate (PHBV) Aqueous Dispersion

Overview

A colloidal aqueous dispersion of spheroidal PHBV microspheres that boosts SPF performance in sunscreen formulations. It complements existing UV filters by scattering light, maximizing their absorption efficiency.

Key benefits: Biodegradable alternative to synthetic SPF boosters
· Compatible with existing formulations · No skin penetration · Mattifying agent



Physicochemical properties

Appearance	Milky white liquid
Supply form (wt%)	10–30 wt%
Biobased	100 %
Particle shape	Spheroidal
Particle size	d50 = 5 µm
Biodegradable	OECD 301F
Average Molecular Weight, Mw (g/mol)	550,000–600,000