

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



TECHNICAL DATA SHEET

SB-PET01-R

Micronized Additive Blend for PET Compounding – Nucleation & Optical Performance (PEG-Free)

Product Description

SB-PET01-R is a PEG-free micronized blend formulated for PET compounding to enhance crystallization rate, dimensional control, and optical clarity. This version improves warehouse storage stability in tropical climates by replacing soft, tacky ingredients with thermally stable alternatives.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate (SB)	532-32-1	Nucleating agent; accelerates crystallization and demolding	55.0%
Micronized Silica	7631-86-9	Optical filler; improves clarity and dimensional stability	30.0%
Glycerol Monostearate (GMS)	31566-31-1	Dispersant and melt flow enhancer	15.0%

Physical Properties

Property	Value / Description
Appearance	Fine white to off-white powder
Odor	Mild fatty odor (GMS)
Particle Size (D100)	< 20 μm (micronized)
Bulk Density	~0.45–0.60 g/cm ³
Flow Characteristics	Free-flowing; slightly hygroscopic
Moisture Content	< 0.5% (as packed)

Thermal Characteristics

Component	Melting / Decomposition Temperature (°C)
Sodium Benzoate	~410 °C
Micronized Silica	>1000 °C (amorphous/fumed silica)
GMS (Micronized)	~55–65 °C (melts)

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



Storage and Handling

- Store below 30 °C in sealed bags to avoid moisture pickup.
- Pre-dry before compounding to avoid PET hydrolysis.
- Blend thoroughly to avoid agglomerates; GMS improves flow of silica and sodium benzoate.
- Use standard PPE: gloves, mask, goggles during blending.
- Shelf-life: 12 months under proper storage conditions.

Packaging Options

Packaging Type	Standard Size	Remarks
Multi-layer PE Bags	10 Kg / 15 Kg	Inner liner prevents moisture uptake
HDPE Drums	25 Kg	For long-term or export storage
Fiberboard Boxes	On Request	With sealed PE inner liner
Custom Packaging	Available on request	MOQ and delivery time apply