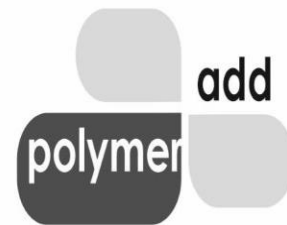


Polymer Add (Thailand) Co.,Ltd.

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-PP02

Micronized Additive Blend for Polypropylene – Nucleation + Antioxidant Protection

Product Description

SB-PP02 is a high-performance micronized additive blend formulated for polypropylene (PP) compounding applications. It combines a crystallization-enhancing nucleating agent with a dual antioxidant system to provide both processing and long-term thermal stability. The blend improves stiffness, reduces molding cycle time, and extends the service life of PP parts used in automotive, appliances, and fiber applications.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate	532-32-1	Nucleating agent for stiffness and reduced cycle time	66.0%
AO-1010 (Phenolic AO)	6683-19-8	Long-term thermal stabilizer	20.0%
AO-168 (Phosphite AO)	31570-04-4	Processing stabilizer for melt protection	13.7%
Aerosil R972 (Silica)	63231-67-4	Optional anti-caking and flow enhancer	0.3%

Physical Properties

Property	Value / Description
Appearance	Fine white to off-white powder
Odor	Odourless to faint phenolic odor
Particle Size (D100)	< 20 µm (micronized)
Bulk Density	~0.40–0.55 g/cm ³
Flow Characteristics	Free flowing with optional silica treatment
Moisture Content	< 0.3% (as packed)

Thermal Characteristics

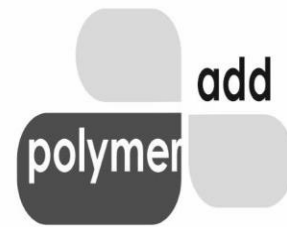
Component	Melting / Decomposition Temperature (°C)
Sodium Benzoate	~410 °C (decomposes slowly)
AO-1010	~230–240 °C (melts)
AO-168	~183–185 °C (melts)
Aerosil R972	>250 °C (amorphous silica; no melting)

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 in a dry environment below 30 °C in sealed containers.
- Shelf-life: 12 months if stored in dry, ambient conditions.

Packaging Options

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

This preblend is offered as a dry additive system designed for technical use in polymer processing. The user is responsible for determining the appropriate dosage, processing parameters, and compatibility with their specific polymer and equipment. Polymer Add Thailand shall not be liable for any consequential or incidental damages arising from incorrect use or unverified end-application performance

Document Ref: SB-PP02 TDS_v1.0 | Issued: **July 2025** | Supersedes all previous versions