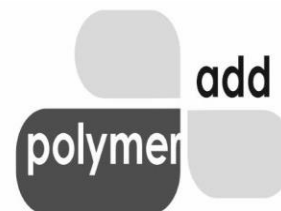


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

POLYPRO MICROBLEND P80

Micronized Additive Blend for Polypropylene Compounding

Product Description

POLYPRO MICROBLEND P80 is a high-performance micronized additive blend developed for PP compounders and masterbatch manufacturers. It enhances nucleation, stiffness, heat deflection temperature (HDT), flexural strength, and thermal-oxidative stability in polypropylene homopolymers and copolymers. The product is engineered for optimal dispersion, low VOCs, and excellent compatibility in melt compounding.

Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Nucleating agent, stiffness, HDT improvement	40.00
Micronized Mica	12001-26-2	Flexural strength, dimensional stability	25.00
Sodium Benzoate (Micronized)	532-32-1	Nucleating agent, improves clarity and cycle time	15.00
AO-1010	6683-19-8	Long-term thermal stability (phenolic antioxidant)	1.00
AO-168	31570-04-4	Processing antioxidant (phosphite type)	0.50
Calcium Stearate (Micronized)	1592-23-0	Internal/external lubricant	0.50
Carrier Base: Micronized Talc	14807-96-6	Matrix filler for dispersion balance	18.00
TOTAL			100.00

* Carrier base can be replaced by Calcium Carbonate or Mica.

Physical Properties

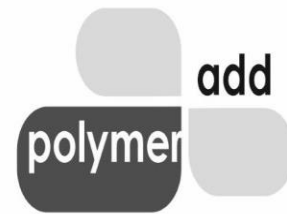
Property	Value
Appearance	Fine white to grayish powder
D50 Particle Size	< 10 μm
Bulk Density	0.45–0.65 g/cm ³
Melt Compatibility	Excellent in PP homopolymer and copolymer
Moisture Content	< 0.5%
Shelf Life	24 months from production date

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Recommended Dosage

Use at 1.0% to 4.0% w/w in PP formulations. For nucleation-dominant applications, 2.0–3.0% is typically optimal. Compatible with talc-filled PP, glass-reinforced PP, and TPO systems.

Storage and Handling

Store in sealed containers in a dry, shaded environment. Avoid exposure to moisture. Use standard powder handling protocols and personal protective equipment during blending and extrusion.

Packing Instructions

Packaging Format	Details
Standard Bag	10 kg PE-lined Kraft Paper Bag
Optional	5 kg double-sealed HDPE bags
Palletization	500 kg per pallet (50 bags x 10 kg)
Labeling	Product Name, Batch No, Net Weight, MFG Date, Expiry Date
Storage Condition	≤ 30°C, RH < 60%, store in dry ventilated area

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

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