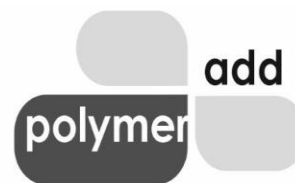


Polymer Add (Thailand) Co.,Ltd.

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

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TECHNICAL DATA SHEET

POWDERBOND-MATCH MICROBLEND P90

Micronized Additive Blend for Epoxy and Polyester Powder Adhesives

Product Description

POWDERBOND-Match MicroBlend P90 is a specialty micronized additive blend designed for use in epoxy and polyester powder adhesives. It enhances dry blend flowability, reduces agglomeration during storage, supports uniform melting during thermal activation, and improves adhesion consistency on various substrates including metals and engineered plastics.

Micronized Ingredients

Chemical Name	Function	Composition %	CAS Number
Micronized Polyethylene Wax (D100 < 20 µm)	Dispersion aid, surface slip, flow modifier	30.00%	9002-88-4
Micronized Glycerol Monostearate (GMS 90%)	Melt stabilizer, internal lubricity	20.00%	31566-31-1
Zinc Stearate (Micronized)	Process lubricant, thermal flow modifier	15.00%	557-05-1
Micronized Talc (High Purity)	Rheology control, filler stabilization	15.00%	14807-96-6
Hydrophobic Fumed Silica (R972 Equivalent)	Anti-caking, moisture resistance	10.00%	68909-20-6
Synthetic Amorphous Silica	Powder flow aid, reduces agglomeration	10.00%	112926-00-8
TOTAL		100.00%	

Typical Properties

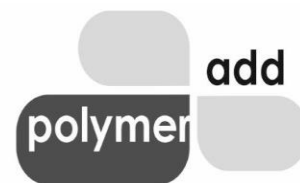
Property	Value / Description
Appearance	Fine off-white powder
Odour	Neutral to slightly waxy
Particle Size (D100)	< 20 microns
Melting Range	90–140°C (GMS, PE wax mixture)
Bulk Density	~0.42–0.48 g/cm ³
Compatibility	Epoxy, polyester, hybrid powder adhesives
Moisture Content	< 0.5%

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Applications

- Epoxy and polyester powder adhesives used in:
 - Metal-to-metal bonding
 - Automotive composite assembly
 - Electronic and electrical lamination
 - Pre-coated structural fastener bonding

Processing Guidance

- Dry blend directly with epoxy/polyester powders
- Compatible with electrostatic or thermally fused systems
- Recommended usage: 1.5–4.0% of total powder formulation

Packing Instructions

Packing Type	Description
Bag Type	Multiwall Kraft Paper Bag with PE Inner Liner
Net Weight	20 Kg
Palletization	40 Bags per Pallet (800 Kg net)
Optional	Vacuum-sealed liner or PE Drum (for export)
Labeling	Product Name, Batch No., Mfg. Date, Expiry
Shelf Life	24 months in original sealed packaging
Storage	Store in a cool, dry place away from heat and moisture

Footnote

Micronized resins (e.g., EVA, PU, Hydrocarbon Resin) are available as separate products for users seeking to customize their Epoxy and Polyester Powder Adhesives.

Date of Creation : July 2025