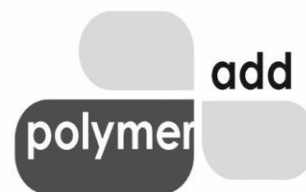


Polymer Add (Thailand) Co.,Ltd.

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

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TECHNICAL DATA SHEET

THERMOLINE-MATCH MICROBLEND T70

Micronized Additive Blend for Thermoplastic Road Marking Adhesives

Product Description

THERMOLINE-Match MicroBlend T70 is a micronized additive system developed to enhance flow, abrasion resistance, and surface finish in thermoplastic road marking formulations. It supports pigment dispersion, improves wear performance under traffic stress, and contributes to uniform melting and anti-blocking during application.

Micronized Ingredients

Chemical Name	Function	Composition %	CAS Number
Micronized Polyethylene Wax (D100 < 20 µm)	Surface slip, flow enhancer, anti-blocking agent	35.00%	9002-88-4
Zinc Stearate (Micronized)	Lubricant, melt flow controller	20.00%	557-05-1
Micronized Talc (High Purity)	Filler dispersion, thermal stabilizer	15.00%	14807-96-6
Hydrophobic Fumed Silica (R972 Equivalent)	Anti-caking, improves melt homogeneity	10.00%	68909-20-6
Micronized Glycerol Monostearate (GMS 90%)	Internal lubricant, melt flow improver	10.00%	31566-31-1
Synthetic Amorphous Silica	Anti-agglomeration, flow control aid	10.00%	112926-00-8
TOTAL		100.00%	

Typical Properties

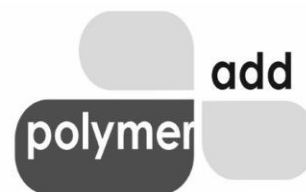
Property	Value / Description
Appearance	Fine off-white to light beige powder
Odour	Neutral
Particle Size (D100)	< 20 microns
Melting Range	95–135°C (multi-component blend)
Bulk Density	~0.38–0.46 g/cm ³
Compatibility	Thermoplastic resin systems (C5/C9 resin, EVA, etc.)
Moisture Content	< 0.5%

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Applications

- Thermoplastic road marking compounds (white/yellow lines)
- C5/C9 hydrocarbon-based thermoplastic resin systems
- Traffic line and pedestrian crosswalk formulations
- Spray, extrude, or screed-type road marking processes

Processing Guidance

- Pre-blend with base resin and pigments before hot melt processing
- Can be used with premix machines, paddle mixers, or ribbon blenders
- Recommended dosage: 1.5–4.0% depending on formulation and flow need

Packing Instructions

Packing Type	Description
Bag Type	Kraft Paper Bag with Inner PE Liner
Net Weight	20 Kg
Palletization	40 Bags per Pallet (800 Kg net)
Optional	Vacuum-sealed liner bag or fiber drum with anti-moisture liner
Labeling	Product Name, Code, Batch No., Mfg. Date, Expiry
Shelf Life	24 months in original packaging, sealed and dry
Storage	Store in cool, dry place; protect from sunlight and moisture

Footnote

Micronized resins (e.g., EVA, PU, Hydrocarbon Resin) are available as separate products for users seeking to customize their Thermoplastic Road Marking Adhesives.

Date of Creation : July 2025