Polymer Add (Thailand) Co.,Ltd.

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ETHYLENE-BIS-STEARAMIDE (EBS, MICRONISED)

USES IN POLYMER PROCESSING

1) Identification & Chemical Information

Item	Details
CAS Number	**110-30-5**
IUPAC Chemical Name	N,N'-ethane-1,2-diylbis(octadecanamide)
Common Industry / Trade Synonyms	Ethylene-bis-stearamide; EBS; Bis-stearamide

2) Physical and Chemical Properties

Property	Description
Appearance	White to off-white fine powder
Density	~0.98–1.02 g/cm^3
Melting Range	**140–146 °C**
Solubility	Insoluble in water; compatible with non-polar polymers
Particle Size Distribution (Micronised Grade)	D50: 4–8 µm / D90: <20 µm / D99: <30 µm

3) Application-Specific Technical Discussion

3.1 Specific Benefits

Ethylene-bis-stearamide (EBS, micronised) is selected where controlled internal lubrication, surface slip, and dispersion efficiency are required across multiple polymer end uses without impacting colour stability or surface quality.

- Uniform lubrication at low addition levels
- Consistent surface slip without excessive migration
- Stable processing behaviour under high shear and short cycle conditions
- Neutral impact on colour and surface appearance

3.2 End Uses

- Polymer masterbatches and additive concentrates
- High-speed injection-moulded thermoplastic parts
- Engineering and mineral-filled polymer compounds

3.3 Key Physical, Chemical & Performance Parameters

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- Amide-based wax structure
- Melting range aligned with thermoplastic processing temperatures
- Controlled internal lubrication behaviour
- Low volatility under processing conditions
- Fine particle size enabling rapid dispersion

3.4 Known Limitations

- Not intended as an external mold release agent
- Limited effectiveness in highly polar polymer systems
- Dosage optimisation required to balance slip and dispersion

4) Regulatory Note

Regulatory status depends on grade, purity, and intended use. Food-contact and regional compliance listings, where applicable, are addressed in separate regulatory documentation.

5) Disclaimer

Information provided for technical reference only.
No warranty of fitness for a particular purpose.
User responsible for validation, trials, and regulatory compliance.

6) Creation and Review

Creation: January 2026
Next Technical Review: January 2028

END OF ARTICLE