

Description

SLIPCHEM E 178 is a high-performance slip masterbatch containing high quality slip agent dispersed in a polyethylene carrier resin. It is specifically developed to reduce the coefficient of friction (COF) between polymer film layers during winding, bag making, and packaging processes. The product offers excellent dispersion, high thermal stability, and consistent migration performance.

Typical Applications

- Blown film (LDPE, LLDPE, HDPE)
- Cast film (CPP, PE-based multilayers)
- Laminated and printed packaging films
- Agricultural films and shrink/stretch films

Property	Test Method	Unit	Typical Value
Appearance	Visual	–	Milky-white granular pellets
Active Content	–	wt.%	28 ± 1
Carrier Resin	–	–	HDPE/LDPE / LLDPE compatible
Melt Flow Index (190 °C / 2.16 kg)	ASTM D1238	g/10 min	12 ± 2
Density	ASTM D792	g/cm ³	0.94 – 0.96
Moisture Content	ASTM D6980-17	wt.%	< 0.2

Advantage

- Rapid and uniform slip activation
- Consistent COF reduction
- Excellent dispersion and film clarity retention
- No interference with sealing or printing inks
- Compatible with most pigments and additives

Typical addition rate

- ♦ 0.5 – 1.5 wt.% (based on total film formulation)

The optimum dosage depends on:

- Film thickness
- Type of polymer matrix
- Desired COF and film surface properties

Packaging

SLIPCHEM E178 is supplied in standard pellet form packed in 25 kg bags.

Storage and handling

SLIPCHEM E178 should be stored to prevent direct sunlight and heat exposure. The storage area should also be dry and preferably not exceed 40°C; Bad storage conditions may lead to quality deterioration and product performance. It is advisable to pre-dry before use and process within 12 months under recommended conditions.

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