

# Crodamides™ as pellet anti-tack additives

Croda Polymer Additives is a market leader in providing in-demand effects for a wide variety of polymers. Our speciality products play a vital role in modern plastics – from optimising polymer processing and handling during manufacture, to improving part performance and aesthetics for consumer markets.

## Pellet adhesion in soft and tacky polymers

Polymers with a soft or tacky pellet form such as ethylene vinyl acetate copolymers (EVA) and styrene butadiene copolymer (SBC) often exhibit adhesion between polymer pellets when exposed to elevated temperatures and pressures.

## Reduced agglomeration

Crodamide EBO is a vegetable-sourced secondary bis-amide additive which can be incorporated directly into these polymers helping reduce contact area between pellet surfaces and prevent any unwanted tack and adhesion.

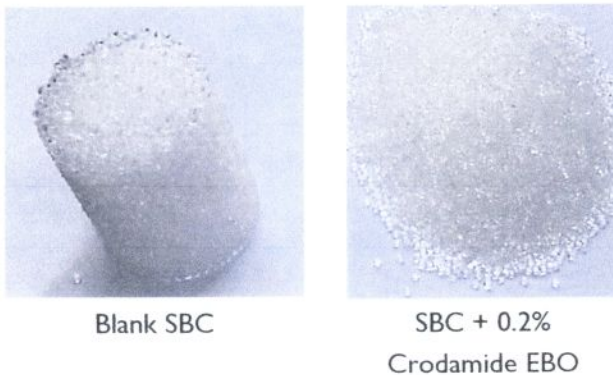


Figure 1: Comparison of SBC polymer with and without Crodamide EBO after 72 hours compressed with a 2.5kg weight at 70°C

## Recommended products

Product	Description	Physical form at 25°C	Recommended polymers	Addition level
Crodamide EBO	Ethylene-bis-oleamide	Bead	EVA, SBC	0.2%
Crodamide S	Stearamide	Bead / Powder / Microbead	Hot melt adhesives with high VA	1.0 – 2.0%
Crodamide SR	Refined stearamide	Bead / Powder	Hot melt adhesives with high VA	1.0 – 2.0%
Crodamide SRV	Refined vegetable stearamide	Bead / Powder	Hot melt adhesives with high VA	1.0 – 2.0%

## **Addition**

Crodamides can be added directly to the polymer during the manufacturing process. Experience has shown that they can easily be incorporated in the polymer. Simple manual mixing prior to processing will normally give an acceptable dispersion, though mechanical means is preferable.

## **Health and safety information**

All Crodamides are considered to be non-toxic and are not expected to be irritating to skin and eyes. They are permitted for specific indirect food contact applications in the USA (section CFR21) and for use as additives in food contact plastics in the EU. Material safety data sheets are available on request.

## **Further Information**

Crodamide slip and anti-block agents can be incorporated directly into the polymer during the extrusion process. The range includes a wide variety of primary amides, secondary amides and secondary bis-amides for use as slip and anti-block agents in plastics. A brochure detailing the full Crodamide range is available. If you would like a copy of this brochure, or any other information, please contact the Polymer Additives Sales Team at the address below.

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