KRATON™

Sustainable Solutions.
Endless Innovation.™

TIE LAYER SOLUTIONS FOR FLEXIBLE PACKAGING

Enabling Efficient Barrier Properties in Sustainable Food Packaging

In pursuit of end product recyclability, food packaging innovators have been shifting to mono-material designs. Kraton's functionalized block copolymers can support this industry need without compromising the performance and efficiency enabled by the multi-layer systems. Traditional multi-layer film structures can also be designed using these polymers.

BENEFITS:

- Enables Recyclable Design
- Improves Puncture & Tear Resistance
- Enhances Flexibility of Film Structure
- Enables Balanced Performance of Impact Strength & Flexibility
- Enables Tie Layers with High Adhesion Strength
- Provides Easily Adaptable Melt Viscosity to Match Profiles of Substrates
- Supports Transparent Solutions

These benefits have been observed with functionalized Kraton SEBS (FG-SEBS) in multi-layer cast film as a tie layer. The recommended functionality is approx. 0.25 – 0.5%.

Anticipated layer adhesion or surface interaction between F-SEBS tie layer and various polymer substrates.

Substrate 1	FM*	Tie Layer	FM*	Substrate 2
Polycarbonate (PC)	A	F-SEBS	A	EVOH
Polyamide (PA)	A	F-SEBS	C	PE, PP
Polypropylene (PP)	C	F-SEBS	A	EVOH
Polyethylene (PE)	C	F-SEBS	A	EVOH
PET	A	F-SEBS	C	PE, PP

*FM (Mode of Peel Failure: A – Adhesive, C – Compatible, Cohesive)

Recommended Polymers:

- **PP or PE: Kraton G SEBS**
- **PS / HIPS:** Kraton A or Kraton D SBS
- **PC:** Kraton G SEBS
- **EVOH:** Kraton FG SEBS

Keys to Success:

- Facilitate Design for Recycling
- Match Rheology (Blend Polymers)
- Balance Functionality (Blend Non-Functional)
- Match Block Copolymer to Substrate

KRATON CORPORATION

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