# **Overview:**

Antiblock masterbatches are used to prevent the adhesion or "blocking" of two adjacent film layers. This makes it easy to separate films which naturally stick to one another when rolled.

Critical concerns in today's competitive marketplace are: Resultant blocking force, imparted haze and cost. Inorganic antiblocks are non-migratory additives useful for all polyolefin extrusion temperature applications. The particle size and shape of the additive (as well as quality of dispersion) play a key role in determining its antiblocking efficiency.



# Select Antiblocks:

Diatomaceous Earth	101736	Nepheline Syenite	103240
Talc	100165-C	Engineered Material	1000215-N

## **Comparative Advantages:**

#### Inorganic Antiblock Types

Properties	Good	Better		Best
Lowest Blocking Force	Nepheline Syenite	Engineered Material	Talc	Diatomaceous Earth
<b>Highest Clarity</b> (least haze)	Talc	Diatomaceous Earth	Nepheline Syenite	Engineered Material
Lowest Cost	Diatomaceous Earth	Nepheline Syenite	Talc	Engineered Material

## Summary:

Diatomaceous earth (DE) and talc prove to be the most efficient antiblocks currently available. Indications are that masterbatches containing Ampacet's engineered materials may be the antiblock of choice if the lowest cost/performance ratio is desired.





# **Inorganic Antiblock Solutions**

### Test Data



**Blocking Force** Blocking is the adhesion of two adjacent layers of film--most often associated with polyethylene and polypropylene films (either blown or cast), and to a lesser extent in extrusion coated or laminated products. Diatomaceous earth-based masterbatches like Ampacet 101736 stand out as the most effective in reducing blocking force, although it is more expensive compared to other options.



**Imparted Haze** An engineered material-based masterbatch can be a good choice when considering clarity, balancing cost with blocking performance, albeit with a lower reduction in blocking force than diatomaceous earth.



**Cost** Ampacet has developed several antiblock masterbatches containing a proprietary engineered material, which balances clarity with cost-effectiveness.

For more information on Inorganic Antiblock Masterbatches and to select the best material for your specific application, contact your Ampacet Account Representative and visit <a href="https://ampacetstage.wpengine.com/masterbatch-products/ampacet-additives/antiblock-concentrates/">https://ampacetstage.wpengine.com/masterbatch-products/ampacet-additives/antiblock-concentrates/</a>



The information and recommendations contained in this document are based upon data collected by Ampacet and believed to be correct. However, no warranty of fitness for use or any other guarantees or warranty of any kind, expressed or implied, is made to the information contained herein, and Ampacet sasumes no responsibility for the results for the use of products and processes described herein. No liability whatsoever shall attach to Ampacet for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the applications, processing or use of the aforementioned information or products by the buyer.