PLASTICS & FILM

High quality Calcium Carbonate, delivering customized performance to meet your product and process needs.
**ADDIMG FORM AND FUNCTION TO PLASTICS**

**Imerys** is the world leader in mineral-based specialty solutions in everyday life. We transform minerals to essential functions that are critical to our customers’ products and production processes.

Imerys exemplifies this in the plastics industry. We extract and process ground calcium carbonate (GCC) and precipitated calcium carbonate (PCC), creating a comprehensive product portfolio to meet your plastics needs. Our product portfolio ranges from economical extenders to highly functional surface-treated additives for a wide variety of plastic applications.

In addition to our product offering, Imerys’ extensive technical and polymer-based applications expertise offers innovative solutions to meet your requirements. Our customers use Imerys calcium carbonate in a diverse array of plastic applications to improve mechanical, rheological and optical properties.

**BENEFITS OF IMERYS CALCIUM CARBONATE IN COMMON APPLICATIONS**

**FLEXIBLE PACKAGING (POLYOLEFIN FILMS)**
Enhances anti-block, improves puncture resistance and stiffness

**RIGID PACKAGING**
Reduces cycle time and improves impact strength

**BUILDING PRODUCTS**
Improves dimensional stability and impact strength

**FIBERS & NONWOVEN FABRICS**
Increases opacity and softness

**THERMOSET RESINS**
Reduces shrinkage and improves heat dissipation

**BIOPOLYMER RESINS**
Improves processability and stability for film and disposable applications
New Product Spotlight

Infusion® Plus

Infusion® Plus is an ultra-fine, surface treated ground calcium carbonate (GCC) engineered to maintain blend uniformity for PVC systems. It provides ease of dispersion, increased loading and improved processability by dissipating electrostatic charge.

Imerys is proud to expand our Carbonates family of Plastic & Films solutions with SOCAL® and WINNOFIL®, precipitated calcium carbonates (PCC). Imerys PCC’s are functional additives used in several PVC applications which offer improved impact strength, better gelation, lower plate out, excellent surface gloss and good nucleation in foams, at a better cost than standard processing aids.

Contact your Imerys representative for more information on how Infusion® Plus, SOCAL® and WINNOFIL® can improve your product performance and processability today!

Treated Calcium Carbonate Grades

<table>
<thead>
<tr>
<th>PVC Vinyl Siding</th>
<th>PVC Sewer/Potable Water Pipe</th>
<th>PVC Window Profiles</th>
<th>PVC Fencing &amp; Decking</th>
<th>PVC Profile Extrusions</th>
<th>PVC Wire &amp; Cable</th>
<th>PP Injection-Molded Siding/Shingles</th>
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Building Products

- Polyolefin Films
- Breathable Polyolefin Films
- BOPP Film
- Agricultural Films
- PE & PP Blow Molding
- PE & PP Injection Molding
- Extrusion Coating
- PE & PP Sheet for Thermoforming
- Fibers & Nonwoven Fabrics

Packaging/Films

- Engineering Resins
- Unsaturated Polyester Resins
- Thermoset Resins
- PVC Flexible Applications
- PVC Calendared Sheeting
- Biopolymers/Biodegradable Polymers

Other Applications

- Typical Properties:
  - Brightness: 96 96 93 96 93 92.5 96 96 93 93 93 93 93 96 96 96 96 96 96 96 96 96 96 96 96 96 96 95
  - Mean Particle Size (µm): 3 3 3 1.8 1.6 1.6 1.1 0.7 1.6 1.6 1.6 1.6 0.07 0.06 0.09 0.07 7 6 5.5 3 3 3 3 2.5

*Please note that the properties quoted within this document are typical properties only and do not constitute a specification. Values vary by plant location.
Imerys’ investment in product and application development is a clear commitment to our customers in the plastics industry. In addition to this investment, we have a dedicated technical support team. This team is well respected and sought out by academia and experts in the plastics market.

**CUSTOMER-DRIVEN**
Imerys works actively with customers to develop new and innovative solutions to solve their technical challenges. As a global leader in white minerals, Imerys brings its unique knowledge, technology and unrivaled depth of application expertise to improve the value of our customers’ products.

**NEW PRODUCT DEVELOPMENT**
Imerys is continuously creating new and better ways to transform mineral resources into high performance, solution-driven products. Our technical personnel have an established track record in the development of products for the plastics industry and an in-depth understanding of minerals for polymer applications.

**ENVIRONMENTAL POLICY**
We believe that environmental responsibility is a shared value with our customers - so we made it a part of our innovation commitment. We are proud to partner with our customers in formulating with higher recycled content through incorporating sustainable solutions, like ReMined®, our line of 100% pre-consumer recycled calcium carbonate, into their product formulations.

For more information or technical advice on partnering for sustainable solutions with ReMined®, please contact us or visit our website today.

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