



CMGulf

Advanced Additive & Color Solutions  
for **Rigid Packaging**



# Masterbatch Solutions for Rigid Packaging

## Key Functional Masterbatch Solutions

- **WhiteSeal™** – High opacity and brightness white for various applications
- **IVSeal™** – Increases rPET IV and processability
- **BluTint™** – Revives and rectifies yellowish and dull rPET
- **O<sub>2</sub>Seal™** – Oxygen scavenger solutions for extension of food shelf-life
- **T-Stream™** – Improves downstream, conversion, and packaging processes
- **UVSeal™** – UV control solution for content and packaging protection

## Sustainability That Performs

- ✓ Enable lightweight designs that reduce material consumption without compromising performance
- ✓ Support recyclability with mono-material and PCR-compatible solutions
- ✓ Enhance processing efficiency to save energy and lower production costs
- ✓ Extend product lifetime through UV and thermal protection, reducing replacement frequency
- ✓ Offer PFAS-free, food-contact approved solutions for safer and more sustainable packaging

## Main Applications

Bottles • Caps & Closures • Cups, Trays, Containers and Lids

## Production Methods

- Extrusion Blow Bolding (EBM)
- Injection Blow Molding (IBM)
- Injection Stretch Blow Molding (ISBM)
- Injection Molding (IM)
- Compression Molding (CM)
- Thermoforming (TF)



# Masterbatch Solutions for Rigid Packaging

>> This catalog features core solutions designed to address common industry needs. Customized grades are also available to support unique challenges and evolving requirements.

## WhiteSeal™ - White Solutions

| Solution    | Description                                                                                        | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|----------------------------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                                    | EBM               | IBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| MT801801 EU | Super light tight white for ESL and UHT milk PET monolayers blow molded bottles.                   |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| MT801022 EU | White MB for PET blow molding, extrusion, and injection molding applications.                      |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |
| MT801221 EU | White MB co-polyester carrier for PET blow molding, extrusion, and injection molding applications. |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |
| MT801116 EU | White MB for PET thermoforming.                                                                    |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| ME82945     | White MB for caps and closures. Ultra-high brightness.                                             |                   |     |      | ✓  | ✓  |    | ✓     | ✓  |     |    |
| ME82244     | White MB for blow molding of polyolefin articles.                                                  | ✓                 | ✓   |      | ✓  |    |    | ✓     | ✓  |     |    |
| ME81852     | White MB for blow molding of polyolefin articles.                                                  | ✓                 | ✓   |      |    |    |    | ✓     |    |     |    |
| MP83465     | White MB for PP thermoforming.                                                                     |                   |     |      | ✓  |    | ✓  |       | ✓  |     |    |
| ME801104 EU | High opacity TiO2-free white MB for dairy applications.                                            | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| MS800610    | White MB for PS thermoforming.                                                                     |                   |     |      |    |    | ✓  |       |    |     | ✓  |

## K-NoIR™ - NIR-Sortable Black Solutions

| Solution     | Description                                                       | Production Method |     |      |    |    |    | Resin |    |     |    |
|--------------|-------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|              |                                                                   | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| IR9092PEK EU | NIR-detectable black MB for polyolein articles.                   | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| IR9093ETK EU | NIR-detectable black MB for PET articles.                         |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| IR9095PEK EU | NIR-detectable black MB for polyolein articles.                   | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| IR9096ETK EU | NIR-detectable black MB for PET sheets and thermoformed articles. |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| IR9097PEK EU | NIR-detectable black MB for PET sheets and thermoformed articles. |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| IR9098PSK EU | NIR-detectable black MB for XPS and thermoformed PS articles.     |                   |     |      | ✓  |    | ✓  |       |    |     | ✓  |

O<sub>2</sub>Seal™ - Oxygen Control Solutions

| Solution    | Description                                                                   | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                               | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| OS4441DP EU | Oxygen scavenger MB for extruded, thermoformed, and blow-molded PET articles. |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |

IRapid™ - Fast Heating Solutions

| Solution    | Description                                                                                            | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|--------------------------------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                                        | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| IR9360ET EU | Heating MB for easy, rapid, and stable re-heating of PET blow molded and thermoformed articles.        |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| IR9354PE EU | Heating MB for easy, rapid, and stable re-heating of polyolefin blow molded and thermoformed articles. | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |

L-TEC® - Laser Marking Solutions

| Solution    | Description                                                   | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|---------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                               | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| LM8708PE EU | Laser marking MB for clear applications at low letdown ratio. | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| LM8871LL EU | Laser marking MB for clear articles.                          | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| LM0309PE EU | Laser marking MB for clear and highly-pigmented applications. | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| LM8870ET EU | Laser marking MB for clear PET articles.                      |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |

TopFusion™ - Tie Layer Compounds and Compatibilizers

| Solution         | Description                                                                    | Production Method |     |      |    |    |    | Resin |    |     |    |
|------------------|--------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|                  |                                                                                | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| TopFusion™ PE400 | Concentrated tie layer compound for blow molded HDPE articles.                 | ✓                 |     |      |    |    |    | ✓     |    |     |    |
| TopFusion™ P155  | Ready-to-use tie layer compound for PP rigid packaging.                        | ✓                 | ✓   |      | ✓  |    |    |       | ✓  |     |    |
| TopFusion™ P106  | Ready-to-use tie layer compound for PP thermoforming.                          |                   |     |      |    |    | ✓  |       | ✓  |     |    |
| TopFusion™ PE501 | Ready-to-use tie layer compound for thermoformed articles made with PS layers. |                   |     |      |    |    | ✓  | ✓     |    |     | ✓  |
| TopFusion™ PE209 | Compatibilizer for processing PCR and PIR streams made with barrier scrap.     | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |

EBM: Extrusion Blow Bolding | IBM: Extrusion Blow Bolding | ISBM: Injection Stretch Blow Molding | IM: Injection Molding  
CM: Compression Molding | TF: Thermoforming

BluTint™ - Functional Color Control Solutions

| Solution    | Description                                        | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|----------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                    | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| MT603431 EU | Blue toner MB for clarfying and de-yellowing rPET. |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| MT603242 EU | Blue toner MB for clarfying and deyellowing rPET.  |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| MT480571    | Blue toner MB for clarfying and deyellowing rPET.  |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |

ColorUp™ - Color Solutions for Recycled Materials

Our advanced color solutions for rigid plastic packaging enhance recycled material utilization while delivering exceptional special effects and regulatory compliance for food and cosmetic applications. These formulations meet the most stringent safety standards, enabling brands to achieve sustainability goals without compromising on packaging quality or performance.

T-Stream™ - Downstream and Conversion Aids

| Solution    | Description                                                                                                                         | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                                                                     | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| SB9132ET EU | Slip-antiblock for injection molding and blow molding of PET articles. Reduces COF, prevents sticking and allows for easy sleeving. |                   |     | ✓    |    |    |    |       |    | ✓   |    |
| SB9134ET EU |                                                                                                                                     |                   |     | ✓    |    |    |    |       |    | ✓   |    |
| SB9135ET EU | Slip-antiblock MB for PET sheets and thermoformed articles, provides antiblocking, reduction of COF and easy de-nesting.            |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| SB9145ET EU |                                                                                                                                     |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| SL9260WB EU | Highly loaded silicon emulsion for de-nesting of thermoformed articles.                                                             |                   |     |      |    |    | ✓  |       |    | ✓   |    |
| SL0004PE    | Slip and mold release MB for polyolefin articles.                                                                                   | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |

UVSeal™ - UV Control and Stabilization Solutions

| Solution    | Description                                                                            | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|----------------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                        | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| UV7263ET EU | UV barrier MB for protecting sensitive content against UV for PET applications.        |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| UV0188PE    | UV barrier MB for protecting sensitive content against UV for polyolefin applications. | ✓                 | ✓   |      |    |    | ✓  | ✓     | ✓  |     |    |
| UV8799PE EU | UV absorber MB for polyolefin applications, SVHC-free, low blooming.                   | ✓                 | ✓   |      |    |    | ✓  | ✓     | ✓  |     |    |



IVSeal™ - Chain Extenders

| Solution    | Description                                                                   | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                               | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| CX9124ET EU | Chain extender MB for PET applications, suitable for producers and recyclers. |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |

FogFree™ - Antifog Solutions

| Solution    | Description                                           | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                       | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| AF9963HP EU | Anti-fog MB for thermoformed PP articles.             |                   |     |      |    |    | ✓  |       | ✓  |     |    |
| AF9314ET    | Anti-fog for PETG co-layers.                          |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| AF9789ET EU | Anti-fog for PETG co-layers, low sealing temperature. |                   |     | ✓    |    |    | ✓  |       |    | ✓   |    |
| AF8745WB EU | Anti-fog coating for PET, PS, and PP articles.        |                   |     |      |    |    | ✓  | ✓     | ✓  | ✓   | ✓  |

TorqueFree™ - Torque Release Solutions for Caps and Closures

| Solution    | Description                                                                 | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-----------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                             | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| SL1207PE EU | Slip and torque release MB for caps and closures.                           |                   |     |      | ✓  | ✓  |    | ✓     | ✓  |     |    |
| SL9725PE EU | Slip and torque release MB for caps and closures, high concentration grade. |                   |     |      | ✓  | ✓  |    | ✓     | ✓  |     |    |

SlipControl™ - Slip Absorbing Solutions

| Solution    | Description                                           | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                       | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| IP8730PE EU | Slip moderator MB for articles made with PCR and PIR. | ✓                 | ✓   |      |    | ✓  | ✓  | ✓     | ✓  |     |    |

T-Frost™ - Frost Effect Solutions

| Solution    | Description                                       | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|---------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                   | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| MT004046 EU | Frost MB for blow molded bottles, clear neck.     |                   |     | ✓    |    |    |    |       |    | ✓   |    |
| MT004047 EU |                                                   |                   |     | ✓    |    |    |    |       |    | ✓   |    |
| MT102110    | Frost MB for injection molding and thermoforming. |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |
| MT603548    |                                                   |                   |     | ✓    | ✓  |    | ✓  |       |    | ✓   |    |

T-Foam™ - Foaming Solutions

| Solution    | Description                                                                                                     | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|-----------------------------------------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                                                 | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| FA0953PE EU | Foaming agent MB, fine cell structure, suitable for polyolefin and PS articles, as well as XPS foam nucleation. | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     | ✓  |
| FA0979PE EU | Foaming agent MB, fine cell structure, suitable for polyolefin articles.                                        | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |

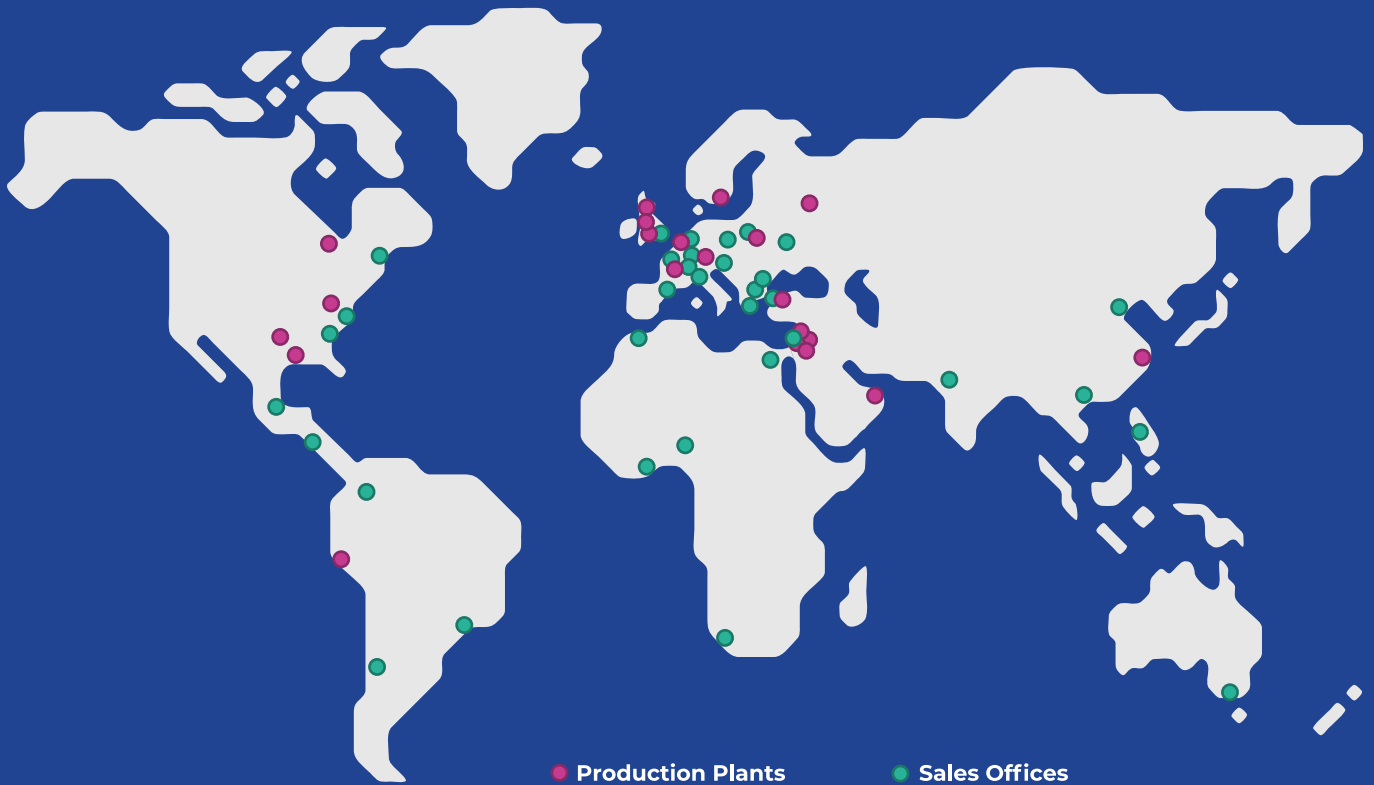
MaxIM™ - Impact Modification Solutions

| Solution    | Description                                                                     | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|---------------------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                                 | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| RT6982DP EU | Impact modifier for sub-zero temperature applications, injection molding grade. |                   | ✓   |      | ✓  | ✓  |    | ✓     | ✓  |     |    |
| RT6988DP EU | Impact modifier for sub-zero temperature applications, extrusion grade.         | ✓                 |     |      |    |    | ✓  | ✓     | ✓  |     |    |
| RT6985DP    | Impact modifier for room temperature applications, injection molding grade.     |                   | ✓   |      | ✓  | ✓  |    | ✓     | ✓  |     |    |
| RT6980DP EU | Impact modifier for room temperature applications, extrusion grade.             | ✓                 |     |      |    |    | ✓  | ✓     | ✓  |     |    |

CrystalClear™ - Nucleation and Clarification Solutions

| Solution    | Description                                                      | Production Method |     |      |    |    |    | Resin |    |     |    |
|-------------|------------------------------------------------------------------|-------------------|-----|------|----|----|----|-------|----|-----|----|
|             |                                                                  | EBM               | EBM | ISBM | IM | CM | TF | PE    | PP | PET | PS |
| NU3701PP EU | Nucleating MB for PP articles.                                   | ✓                 | ✓   |      | ✓  | ✓  | ✓  |       | ✓  |     |    |
| NU2753HP EU | Nucleating MB for PP articles, suitable for clear applications.  | ✓                 | ✓   |      | ✓  | ✓  | ✓  |       | ✓  |     |    |
| NU3703PE EU | Nucleating agent for PE and PP, suitable for clear applications. | ✓                 | ✓   |      | ✓  | ✓  | ✓  | ✓     | ✓  |     |    |
| NU6670PP EU | Clarifying MB for PP articles, extrusion grade.                  | ✓                 | ✓   |      |    |    | ✓  |       | ✓  |     |    |
| NU0851PP EU | Clarifying MB for PP articles, injection molding grade grade.    |                   |     |      | ✓  | ✓  |    |       | ✓  |     |    |

# Making it Happen Globally.



## Innovating for the Future

We are constantly preparing for the challenges of tomorrow, today!

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- ✓ Customization is key - We'll create the precise solution you need.
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