



SASOL
reaching new frontiers

CeraCarb MB

Innovative wax based black masterbatch for colouring polyolefins

Sasol Performance Chemicals



About us

Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business employs about 1300 people in four key business divisions: Organics, Inorganics, Wax and PCASG. Our offices in 18 countries serve customers around the world with a multi-faceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Our products are as individual as the industrial applications they serve, with tailor-made solutions creating real business value for customers. Ongoing research activities result in a continuous stream of innovative product concepts that help our customers position themselves successfully in future markets.

Our key products include surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, ethylene, mineral oil-based and synthetic paraffin waxes, cresylic acids, high-quality carbon solutions as well as high-purity and ultra-high-purity alumina.

Our products are used in countless applications in our daily lives to add value, security and comfort. Typical examples include detergents, cleaning agents, personal care, construction, paints and coatings, leather and metal processing, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and other diverse specialty applications including oil and gas recovery, aroma production, plastic stabilisation, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.



Advantages of CeraCarb MB

Process Benefits

- Imparts strong black colour to finished products
- Improves flow of polymer melt during processing
- Easier mould filling
- Improved shot-to-shot consistency
- Enhanced final product gloss

During Injection Moulding

- Lowering of processing temperatures
- Reduction of cooling time
- Shortening of cycle times
- Overall savings in power consumption



Case studies

Case study 1 Injection Moulding

- Substitution of standard black masterbatch previously dosed at 1,5 %
- 3 seconds cycle time improvement during injection moulding, due to faster plasticization
- Improvement in gloss

Case study 2 Injection Moulding

- Refuse bin lid: PP based compound
- Injection moulding displayed easier flow
- Substitution of 2,2 % Carbon black masterbatch

Case study 3 Injection Moulding

- Garden furniture: PP based recycle
- Compounding of PP recycle while dosing CeraCarb MB
- No change in extruder conditions
- Chairs displayed better gloss and stronger colour
- Substitution of Carbon Black Masterbatch @ 2,2 %



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Recommended Dosage

- Suitable for pigmentation of virgin and recycle polyolefins
- Recommended dosage is 2 - 2.5%
- This is guided by:
 - Final product physical properties
 - Color consistency requirement



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At your service

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