



**Physical Properties and
General Processing Conditions**

**F-801652 MB PE 50 Black Antiblock
Masterbatch
Polyethylene (LDPE)
Black**

F-801652 MB PE 50 Black Antiblock is a concentrate of 58-62 nm particle sized carbon black in a LDPE carrier. It is manufactured to give a high standard of pigment dispersion making it suitable for quality film applications. F-801652 MB PE 50 Black Antiblock incorporates an antiblock agent that makes film rolls easier to unwrap.

F-801652 MB PE 50 Black Antiblock is an economical grade that contains 50% carbon black this high loading of carbon black makes this grade cost effective in applications that have a specified minimum carbon black level in the final component.

F-801652 MB PE 50 Black Antiblock is currently used in the following areas: single layer film (down to 25 microns) for agricultural, refuse, and construction applications; moulding and compounding – this grade provides a cost effective solution in applications that have defined minimum carbon black levels; profile extrusion – thick section including non pressure construction pipe.

F-801652 MB PE 50 Black Antiblock is compatible with all polyethylene polymers and is suitable with most polypropylene.

PHYSICAL PROPERTIES & AVERAGE VALUES	ENGLISH	SI METRIC	TEST
Carrier Resin	LDPE	LDPE	
Pigment Loading	46.5-51.5 %	46.5-51.5 %	
Carbon Black Tint Strength	55	55	
Carbon Black Particle Size	58-62 nm	58-62 nm	
Specific Gravity	1.41	1.41	BS 509A
Melt Flow Rate @ 190 °C/21.6 kg	24 g/10 min	24 g/10 min	BS 720A
Moisture Content	0.2 %	0.2 %	
Form Supplied	Pellets	Pellets	
Packaging	Bag	Bag	

PROPERTY NOTES

- Data herein is typical and not to be construed as specifications.

GENERAL PROCESSING CONDITIONS	ENGLISH	SI METRIC
Injection Pressure	10000-15000 psi	70-105 MPa
Melt Temperature	375-450 °F	190-230 °C
Mold Temperature	90-150 °F	30-65 °C
Drying	2 hr @ 175 °F	2 hr @ 80 °C

PROCESSING NOTES

- F-801652 MB PE 50 Black Antiblock can be used either by directly feeding polymer and masterbatch into processing equipment hopper or by preblending.
- F-801652 MB PE 50 Black Antiblock must be stored in cool dry conditions.

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics for injection molding. Because injection mold design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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