



**Physical Properties and
General Processing Conditions**

**F-801651 MB PE 50 Black
Masterbatch
Polyethylene (LDPE)
Black**

F-801651 MB PE 50 Black is a concentrate of 60 nm particle sized carbon black in a LDPE carrier. It is manufactured to give a very high standard of pigment dispersion making it suitable for high quality film applications.

F-801651 MB PE 50 Black is based on raw materials that are suitable for good contact applications and contains 50% carbon black that displays a blue tone. F-801651 MB PE 50 Black can be cost effective when masterbatch additions are driven by end component specifications that require a defined level of carbon black only.

F-801651 MB PE 50 Black is currently used in the following areas: single layer film (down to 25 microns) for non UV critical horticultural, agricultural, and construction uses; co-extruded and cast film; moulding and compounding; profile extrusion – thin and thick section.

F-801651 MB PE 50 Black 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	48-52 %	48-52 %	
Carbon Black Tint Strength	55	55	
Carbon Black Particle Size	58-62 nm	58-62 nm	
Specific Gravity	1.25	1.25	BS 509A
Melt Flow Rate @ 190 °C/10 kg	13 g/10 min	13 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-801651 MB PE 50 Black can be used either by directly feeding polymer and masterbatch into processing equipment hopper or by preblending.
- F-801651 MB PE 50 Black must be stored in cool dry conditions.

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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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