



**Physical Properties and  
General Processing Conditions**

**F-801653 MB PP 40 Black  
Masterbatch  
Polypropylene (PP)  
Black**

F-801653 MB PP 40 Black is a concentrate of 26-30 nm particle sized carbon black in a polypropylene carrier. It is manufactured to a high dispersion standard making it suitable for quality compound/component colouring.

F-801653 MB PP 40 Black is currently used in the following areas: moulding – added directly into the injection moulding process to give components a deep black colour; compounding – the dilution properties offer easy compound colouring in most processes, including low shear, single-screw extruder equipment; extrusion – suitable for general purpose thick section extrusion.

F-801653 MB PP 40 Black is compatible with most polypropylene materials, including copolymers.

<b>PHYSICAL PROPERTIES &amp; AVERAGE VALUES</b>	<b>ENGLISH</b>	<b>SI METRIC</b>	<b>TEST</b>
Carrier Resin	PP	PP	
Pigment Loading	37.5-42.5 %	37.5-42.5 %	
Carbon Black Tint Strength	108-113	108-113	
Carbon Black Particle Size	26-30 nm	26-30 nm	
Specific Gravity	1.23	1.23	BS 509A
Melt Flow Rate @ 230 °C/10 kg	8 g/10 min	8 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.

<b>GENERAL PROCESSING CONDITIONS</b>	<b>ENGLISH</b>	<b>SI METRIC</b>
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-801653 MB PP 40 Black can be used either by directly feeding polymer and masterbatch into processing equipment hopper or by preblending.
- F-801653 MB PP 40 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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