

PEB7303

Black Masterbatch for Quality Film, General Extrusion, Moulding and Compounding Applications

CAHIssue4A(March2010) PEB7303



Performance Benefits and Overview

PEB7303 is a concentrate of a high colour carbon black in an LDPE carrier. It is manufactured to give a high standard of pigment dispersion making it suitable for quality film applications. PEB7303 also incorporates an antiblock agent that makes rolls of film easier to unwrap.

PEB7303 is an economic grade with covering power similar to a 40% SRF (60nm) carbon black masterbatch. Its economic nature makes it especially attractive to processes that have uncontrolled masterbatch additions.

PEB7303 complies with new food contact legislation as defined under the amendment to European directive 2002/72/EC (2007/19/EC)

Application Areas

PEB7303 can be used in the following areas:

- Single layer film (down to 25 microns) for agricultural, refuse and construction uses.
- Polymer recycling. This grade provides a cost effective solution to covering over jazz materials to produce a uniform black compound.
- Profile extrusion – Thick sections including none pressure construction pipe.

PEB7303 is compatible with all Polyethylene polymers and is usually suitable in Polypropylene.



Typical Applications

Thin Film	✓
Co-extrusion	
Mulch Film	
Agricultural Film	✓
Stretch Film	
Refuse Film	✓
Food Packaging	✓
Geomembranes	

Main Features

High Opacity	✓
Gloss Finish	
Food Contact	✓
Good Processability	✓
High Colour	
Blue Undertone	
Red/Brown Undertone	✓

Applications may require different masterbatches depending on processing parameters or local specifications. It is advisable to check with our sales department prior to commercial production.

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Material Data

PEB 7303

Nominal Composition

Carbon black type	High colour
Antiblock	Yes
Carrier	LDPE

Use

PEB7303 can be used either by feeding polymer and masterbatch into the processing equipment hopper directly or by preblending.

The amount of masterbatch added is dependent upon the required colour of the final compound or opacity in film.

Typical Physical Properties

Properties	Test Method	Typical Value
Specific Gravity	BS 2782:509A	1.65
Melt Index g/10 mins (21.6Kg at 190°C)	BS 2782:720A	28.0

Packaging

Hubron black masterbatches are typically available in sealed 25kg Polyethylene Bags. Other forms are available on request and include bulk packaging such as Big Bags, Octabins and Tankers.

PEB7303 must be stored in cool dry conditions.

Specification

Parameter	Test Method	Units	Limits
Blown film dilution	Visual examination against standard sample (HTM 21)	-	To Std
Blown film dispersion	Assessment of undispersed carbon black agglomerates (HTM 39) Range : 200 – 500 microns > 500 microns	agglom/g agglom/g	0.20 Max 0.02 Max
Melt flow index	BS 2782: 720A 21.6Kg at 190°C	g/10mins	20 Min
Moisture content	Weight loss at 105°C at time of packing (HTM 35)	%	0.2 Max
Pellet size (1)	Visual examination against pellet standards	-	max to min
Pellet size (2)	Pellets greater than 4mm (HTM 38) Pellets less than 2mm (HTM 38)	% %	0.5 Max 3.0 Max

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