

TECHNICAL DATA SHEET

PAPERMATCH®

PAPERMATCH® NG is a new range of Paperlike masterbatches based on High Molecular Weight High Density Polyethylene. They contain a selected choice of fillers in order to obtain a paperlike appearance, feeling and printability. **PAPERMATCH® NG 4118/50, NG 4228/50, NG 4448/50** have to be processed by the blown process and must be diluted in a HMW HDPE or MDPE at around 50%. They are formulated with white pigments in order to obtain sufficient opacity. They are odourless during processing and final films have excellent organoleptic properties.

PHYSICAL PROPERTIES

	NG 4118/50	NG 4228/50	NG 4448/50
Melt Index (190/5)	0,6	0,7	0,8
Specific Gravity g/cm ³	± 1,64	± 1,64	± 1,64
Bulk Density (g/l)	± 1000	± 1000	± 1000
Moisture Content (ppm)	< 500	< 500	< 500
Colour	White	White	White

These are typical properties only and are not to be regarded as sales specification.

USAGE

Blown film made on a HDPE extrusion line at 190 – 210°C, a blow Up ratio of 4/1 and a die gap of 1.2 mm, with 50% **PAPERMATCH® NG** in a HMW HDPE has following properties :

	NG 4118/50	NG 4228/50	NG 4448/50
Gloss (45°)	5,5	4,8	4,0
COF – Film/film			
Static	0,38	0,43	0,45
Kinetic	0,32	0,35	0,38
Tensile Strength at yield (N/mm ²) – MD	22	20	18
TD	20	19	17
Tensile Elongation at break (%) - MD	580	560	490
TD	600	590	520
Average Surface Roughness Ra (micron) (acc. DIN 4766)	0,63	0,96	2,44
W.V.T.R. at 38°C and 100% RH (gr/m ² .day)			
15 micron	10	12	18
30 micron	5	6	9
60 micron	2,5	3	5

FOOD APPROVAL

PAPERMATCH® NG is approved for food packaging according :

FDA approved
EEC approved

PACKAGING & STORAGE

PAPERMATCH® NG is packed in 25 kg moisture-proof bags on shrink –wrapped pallets. **PAPERMATCH® NG** can be stored up to maximum 12 months at 25°C for optimum performance. Higher temperatures might reduce storage time considerably.

Users should undertake sufficient verification and testing to determine the suitability for their own purpose of any information or products referred to herein.

Reported values pertain only to natural resins : pigmenting may vary properties.

NOTE : While the information herein is believed to be reliable and correct, nothing herein is intended and should not be construed as a representation or warranty, expressed or implied, as to results obtained or to be obtained by others who may make use of this information or with respect to the absence, existence or validity of patent rights, if any of others involving any composition or process herein referred to ; or an inducement or recommendation for the violation of any such patent rights; and responsibility and liability therefore is disclaimed.