



Test report no. 35621.eng

Test Required: 8 samples of coloured polypropylene.
Test for overall migration.

Sampling by: Client

Sample received: 14 June 2010

Test period: 30 August – 14 September 2010

Remarks: The results of the analyses and a statement for the applied method are given on the next pages, and relates only to the analysed samples.
The results were forwarded on mail.

The test is carried out on the basis of Danish Technological Institute's "Conditions for Regulating Liability".
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Introduction

8 samples of coloured polypropylene were tested for overall (total) migration. The migration tests were performed in 3% acetic acid and 95% ethanol according to EN 1186-3.

Sample list

Lab. label	Client label
35621-1	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10103391BG FDM Black Bathene PP-89003
35621-2	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10121417BG FDM 4004-PU-80 PP Purple
35621-3	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10116850BG FDM S8051-OR-80 PP Orange
35621-4	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10062980BG FDM 925000960 PP White
35621-5	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10119986BG FDM S8144-GN-80 PP Green
35621-6	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10120019BG FDM S8096-RD-80 PP Red
35621-7	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10119987BG FDM S8064-YE-80 PP Yellow
35621-8	PP-polymer: INEOS Polypropylene grade 100-CA50 & 402-CB12 Colour: PolyOne CC10122996BG FDM 4034-BU-80 PP Blue

Test conditions

Food simulant 1: 3 % acetic acid

Food simulant 2: 95 % ethanol

Testtemperature: 40 °C

Migration test period: 10 days

Exposed area: 1 dm²

The tests were performed in triplicate.

Conclusion

The results for the overall migration in 3 % acetic acid and 95 % ethanol respectively, are in compliance with the EU-directive 2007/19/EC of 30 March 2007.

The limit for the overall migration (OML) is 60 mg/kg foodstuff or 10 mg/dm² surface area.

Results for overall migration

Client label	Colour: PolyOne CC10103391BG FDM Black Bathene PP-89003			
Lab. label	35621-1 (A+D)	35621-1 (B+E)	35621-1 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	< 1	< 1	< 1	10
95% ethanol	< 1	3.0	< 1	10

Client label	Colour: PolyOne CC10121417BG FDM 4004-PU-80 PP Purple			
Lab. label	35621-2 (A+D)	35621-2 (B+E)	35621-2 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	< 1	< 1	< 1	10
95% ethanol	< 1	4.8	< 1	10

Client label	Colour: PolyOne CC10116850BG FDM S8051-OR-80 PP Orange			
Lab. label	35621-3 (A+D)	35621-3 (B+E)	35621-3 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	< 1	< 1	< 1	10
95% ethanol	< 1	< 1	< 1	10

Client label	Colour: PolyOne CC10062980BG FDM 925000960 PP White			
Lab. label	35621-4 (A+D)	35621-4 (B+E)	35621-4 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	4.5	3.8	3.7	10
95% ethanol	2.8	3.0	1.2	10

OML: The overall migration limit

Comments

The single results are listed for all triplicate determinations.

Results for overall migration

Client label	Colour: PolyOne CC10119986BG FDM S8144-GN-80 PP Green			
Lab. label	35621-5 (A+D)	35621-5 (B+E)	35621-5 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	2.4	2.9	3.3	10
95% ethanol	1.9	6.5	5.7	10

Client label	Colour: PolyOne CC10120019BG FDM S8096-RD-80 PP Red			
Lab. label	35621-6 (A+D)	35621-6 (B+E)	35621-6 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	6.4	5.8	4.8	10
95% ethanol	6.9	3.9	3.7	10

Client label	Colour: PolyOne CC10119987BG FDM S8064-YE-80 PP Yellow			
Lab. label	35621-7 (A+D)	35621-7 (B+E)	35621-7 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	3.2	3.1	4.6	10
95% ethanol	4.3	1.0	1.3	10

Client label	Colour: PolyOne CC10122996BG FDM 4034-BU-80 PP Blue			
Lab. label	35621-8 (A+D)	35621-8 (B+E)	35621-8 (C+F)	OML
Food simulant	mg/dm ²	mg/dm ²	mg/dm ²	mg/dm ²
3% acetic acid	4.8	5.5	3.8	10
95% ethanol	5.3	1.9	3.6	10

OML: The overall migration limit

Comments

The single results are listed for all triplicate determinations.