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Cologne,	19.05.2008

Test Report No.      AZ 42184

Test item      Two samples (plastic grips)

Identification:      1) Blue grip with yellow end  
                             2) Yellow grip wit red end

Condition at delivery:      No claim


Date of delivery:      14.05.2008


Place of testing:      Cologne

Test period:      15.05.2008      to      19.05.2008

Test scope:      Parameters selected by customer

Cologne, 19.05.2008

  
i.A.  
Dr. rer. nat. A. Wennemer  
(Section Head)

  
i.A.  
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(Expert)

Test Report No.: AZ 42184  
Date: 19.05.2008  
Method: Harmonized Method for Determination of Polycyclic Aromatic Hydrocarbons (PAH)  
in plastic sampling, gas chromatographic method with mass spectrometric  
detection, limit of determination 0,2 mg/kg per component; ZEK 01-08

Sample No.:		2008-19687
Sample: 2) handle blue		
Parameter	Unit	Result
Category *	.	2
Naphthalene	mg/kg	<0,2
Acenaphthylene	mg/kg	<0,2
Acenaphthene	mg/kg	<0,2
Fluorene	mg/kg	<0,2
Phenanthrene	mg/kg	<0,2
Anthracene	mg/kg	<0,2
Fluoranthene	mg/kg	<0,2
Pyrene	mg/kg	<0,2
Benzo(a)anthracene	mg/kg	<0,2
Chrysene	mg/kg	<0,2
Benzo(b)fluoranthene	mg/kg	<0,2
Benzo(k)fluoranthene	mg/kg	<0,2
Benzo(a)pyrene	mg/kg	<0,2
Indeno(1,2,3-cd)pyrene	mg/kg	<0,2
Dibenz(a)anthracene	mg/kg	<0,2
Benzo(ghi)perylene	mg/kg	<0,2
Total PAH (EPA)	mg/kg	n.d.

Sample No.:		2008-19688
Sample: 3) handle yellow		
Parameter	Unit	Result
Category *	.	2
Naphthalene	mg/kg	<0,2
Acenaphthylene	mg/kg	<0,2
Acenaphthene	mg/kg	<0,2
Fluorene	mg/kg	<0,2
Phenanthrene	mg/kg	<0,2
Anthracene	mg/kg	<0,2
Fluoranthene	mg/kg	<0,2
Pyrene	mg/kg	<0,2
Benzo(a)anthracene	mg/kg	<0,2
Chrysene	mg/kg	<0,2
Benzo(b)fluoranthene	mg/kg	<0,2
Benzo(k)fluoranthene	mg/kg	<0,2
Benzo(a)pyrene	mg/kg	<0,2
Indeno(1,2,3-cd)pyrene	mg/kg	<0,2
Dibenz(a)anthracene	mg/kg	<0,2
Benzo(ghi)perylene	mg/kg	<0,2
Total PAH (EPA)	mg/kg	n.d.



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Single components with an amount of < 0.2 mg/kg were not considered by the calculation of the sum. In the case of all 16 PAH according to EPA were not detected, the result is stated n.d. (not detectable)

\* Valuation of the result according to ZEK 01-08

Category 1 - Material in contact with foodstuff, or materials intended to be put in mouth and toys for children aged < 36 months. Requirement for total PAH (EPA): < 0.2 mg/kg\*\*.

Category 2 - Materials with foreseeable contact to skin for longer than 30 seconds (long term skin contact) and toys not covered by category 1. Limit for total PAH (EPA): 10 mg/kg respectively limit for benzo(a)pyrene: 1 mg/kg.

Category 3 - Materials with foreseeable contact to skin up to 30 seconds (short term skin contact) or without skin contact. Limit for total PAH (EPA): 200 mg/kg respectively the limit for benzo(a)pyrene: 20 mg/kg.

\*\* If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186, ff. and § 64 LFGB 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.



Test Report No.: AZ 42184  
Date: 19.05.2008  
Method: according to: Water quality - Determination of selected phthalates using gas chromatography/ mass spectrometry, extraction with MTBE; DIN EN ISO 18856

Sample No.:	2008-19680	
Sample:	1) ms handle blue + handle yellow	
Parameter	Unit	Result
Group phthalates	.	
Dibutylphthalate, DBP	%	<0,025
Benzylbutylphthalate, BBP	%	<0,025
Bis-(2-ethylhexyl)pht DEHP	%	<0,025
Di-n-octylphthalate, DNOP	%	<0,025
Diisodecylphthalate, DIDP	%	<0,025
Diisononylphthalate, DINP	%	<0,025

-END-