

INDUSTRIAS BETIK, S.A.

Obispo Otaduy Street, 7-w, Oñati, Spain

Sample Description : BIODEGRADABLE STARCH CUTLERY  
Item No. : F-07A / K-07A / S-05  
Buyer : INDUSTRIAS BETIK S.A.  
Importer : INDUSTRIAS BETIK S.A.  
Requested Age Grading : 3+  
Country of Origin : CHINA  
Country of Destination : EUROPEAN

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No. : T52010310169SC  
Sample Receiving Date : Nov 25, 2020  
Test Performing Date : Nov 25, 2020 to Dec 08, 2020  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arthur Mak  
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center Handlines

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1. Test conducted:

**BS EN 12875-1: 2005 Mechanical dishwashing resistance of utensils — Part 1: Reference test method for domestic articles (As per client's requirement)**

**Scope:** This European Standard specifies a method for testing the resistance of domestic articles made from ceramic, glass, glass ceramic, vitreous enamel, metal and plastics under the combined chemical, thermal and mechanical stresses of mechanical dishwashing in domestic dishwashers.

Test sample description:	Knife& Fork& Spoon
Number of Tested Sample(s):	3 Pieces/type, total 3 types
Number of Controlled Sample(s):	1 Piece/type, total 3 types
Test cycles	125 cycles

2. Test Procedure:

According to BS EN 12875-1-2005 Clause 8.3

3. Test Result as follows:

Overall conclusion of **Non-Metal**: Pass

Requirement: Pass means the average value of 1.0 for each article is not exceeded, an average is calculated from the criteria listed in EN 12875-2-2002 table 1.

Sample 1:

	Articles with or without decoration (Category of articles)	Test specimen number	Color	Gloss	Clouding	Resistant deposits and iridescent layers	Other aspects
Inspector 1	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Inspector 2	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Rating Average			0	0	/	0	0
Conclusion (≤1)			Pass	Pass	/	Pass	Pass



**Sample 2:**

	Articles with or without decoration (Category of articles)	Test specimen number	Color	Gloss	Clouding	Resistant deposits and iridescent layers	Other aspects
Inspector 1	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Inspector 2	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Rating Average			0	0	/	0	0
Conclusion ( $\leq 1$ )			Pass	Pass	/	Pass	Pass

**Sample 3:**

	Articles with or without decoration (Category of articles)	Test specimen number	Color	Gloss	Clouding	Resistant deposits and iridescent layers	Other aspects
Inspector 1	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Inspector 2	Plastic	1#	0	0	/	0	0
		2#	0	0	/	0	0
		3#	0	0	/	0	0
Rating Average			0	0	/	0	0
Conclusion ( $\leq 1$ )			Pass	Pass	/	Pass	Pass



Inspection criteria (Refer to EN 12875-2-2002 Table 1)

Articles with or without decoration	Color <sup>1)</sup>	Gloss	Clouding	Resistant deposits and iridescent layers <sup>2)</sup>	Other aspects
Ceramic tableware	+	+		+	+ 3) 4) 5)
Glass, glass ceramic ware	+	+	+ 6)	+	+ 4) 5)
vitreous enameled tableware	+	+		+	+ 3) 4) 5)
Plastics articles	+	+	+ 6)	+	+ 7) 3)

(+) = to be inspected

- 1) If several colors are present on one article to be inspected, the color with the greatest change shall be chosen.
- 2) For the elimination of easily removable deposits see 7.1.
- 3) E.g. crazing.
- 4) The adherence of decorations shall be tested by repeated wiping with a moist linen cloth under slight pressure.
- 5) Abrasion which is caused by friction during the dishwasher treatment shall be disregarded.
- 6) Transparent articles only.
- 7) Swelling, deformation, cracking, or delamination.

Evaluation of inspection criteria (Refer to EN 12875-2-2002 Table 2)

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Overall conclusion of **Metal**: NA

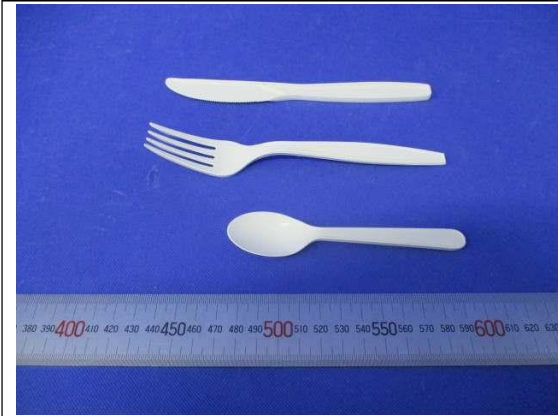
Requirement: Pass means no visible change was found on the tested samples.

Defects description (If fail): /

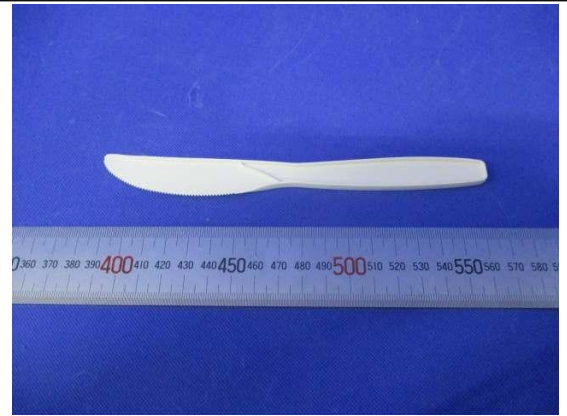




Sample Photo(s):



Sample as receives



Test sample 1



Test sample 2



Test sample 3

\*\*\*End of Report\*\*\*

