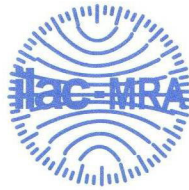




(2006)国认监认字(103)号



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检测
CNAS L0251

NTSQP

国家塑料制品质量监督检验中心

China National Centre for Quality Supervision & Test of Plastics Products

Test Report

Sample Clients*

[Redacted]

Sample Producer *

[Redacted]

Sample Name*

PLA resin

Sample Type

Trade Mark

Report Number

NTSQP[2008]C1384

Date of Report

Nov. 14, 2008

Center address: 11 Fucheng Road, Beijing, China

Post: 100048

Centre Tel: 010-68983956 68985371

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E-mail: ntsqp@public.bta.net.cn

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China National Centre for Quality Supervision & Testing of Plastics Products

First page of Report

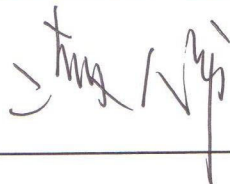
NTSQP

Report No.: NTSQP[2008]C1384

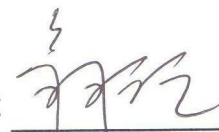
Precautory code: 2008E0892

Sample Client(s)*	[REDACTED]			Telephone No.*	[REDACTED]
Address*	[REDACTED]				
Sample Producer*	[REDACTED]			Trade Mark	----
Name of Sample*	PLA resin			Quantity of Samples	500g
Type and specification	----	Date of Production*	Apr. 16, 2008	Receiving Date	Jun. 23, 2008
Sampling Place	----	Quantity of the batch	----	Date of Sampling	----
Sampling unit	----				
Descriptions of Sample and/or Sampling	Sample is white columniform granule. Statement of the client: The sample is made from single polymer of PLA.				
Standard of Test	GB/T 20197-2006 《Define, Classsify,marking and degradability requirement of degradable plastic》				
Summary of test	1 item entrusted for test, 1 item passed and accepted.				
Inspection Conclusion	Precautory items of the sample are qualified according to the Standard.				
Remark	<p>1.The client's objection, in case there is any, shall be submitted in the written form within 15days upon receipt of the test report. No acceptance shall be allowed when the objection is overdue.</p> <p>2.Duplication of part of the test report shall not be allowed unless with the written approval of the Center.</p> <p>3.The test report shall be invalid when it is incomplete.</p> <p>4.The test report is responsible to the client only for the submitted sample(s) .</p> <p>5. The content of the items with the symbol '*' is supplied by the Client and Center is not responsible to confirm it.</p> <p>6.The Chinese and English versions have been made. Should there be any differences in interpretation, the Chinese version would be the controlling document.</p>				

Approved by:



Reviewed by:



China National Centre for Quality Supervision & Testing of Plastics Products
Attachment page of Report

NTSQP

Report No.: NTSQP[2008]C1384

Precatory code: 2008E0892

No.	Item(s) Tested	Unit	Requirement(s)	Test Result(s)	Conclusion
01	The final degree of biodegradation after 105 days (the biodegradation procedure and curve, are given in annex) (No text below this column)	%	≥ 60	81.4	Passed
Note	The sample is tested according to the requirement of one polymer in GB/T 20197-2006. Standard of test is according to GB/T 19277-2003 (IDT ISO 14855 : 1999).				

Compiled by: _____



Date: Jun. 21, 2007

APPENDIX

NTSQP

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Controlled aerobic composting test-----Test Report

Sample: PLA resin

Reference material : Cellulose

Origin of Compost: BEIJING

Age of compost : 3 Months

Volume of test vessels: 3L

Method of CO₂ determination: Measure the cumulative carbon dioxide evolved as dissolved inorganic carbon (DIC) after absorption in sodium hydroxide solution .

Reference standard: GB/T 19277-2003 (IDT ISO 14855:1999)

Result of the test

	45d degree of biodegradation %	105d final degree of biodegradation %
Sample	34.3	81.4
Reference material	72.5	90.3

Validity criteria:

1) Whether the degree of biodegradation of reference material after 45day >70% ?

YES NO

2) Dose mean CO₂ production in the blank vessels after 10days in the range 50mg to 150mg CO₂/g volatile solids?

YES NO