

# Test Report

No. TSNEC0800032901

Date: 03 Dec 2008

Page 1 of 4

YANTAI E.S.T SILICONE TECH CO.,LTD.  
89 HUAN HAI ROAD,YANTAI CITY,SHANDONG  
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as :  
SILICONE

SGS Job No. : 11446297 - TJ  
SGS Internal Reference No. : 3.1  
Material Name : VINYL-FUNCTIONAL POLYDIMETHY SILOXANEWITH  
Model No. : TSL-801  
Date of Sample Received : 26 Nov 2008  
Testing Period : 26 Nov 2008 - 03 Dec 2008  
  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).  
Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.



Qi Yuqing. Lucid  
Manager

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## Test Report

No. TSNEC0800032901

Date: 03 Dec 2008

Page 2 of 4

### Test Results:

ID for specimen 1 : TSN08-000329.001  
Description for specimen 1 : white translucent paste

### RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-AES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-AES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321/2nd CDV (111/95/CDV), ICP-AES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321/2nd CDV (111/95/CDV), UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Sum of PBDEs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	
Decabromodiphenyl ether ##	mg/kg	IEC 62321/2nd CDV (111/95/CDV), GC-MS	N.D.	5	

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## Test Report

No. TSNEC0800032901

Date: 03 Dec 2008

Page 3 of 4

### Note:

1. mg/kg = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. ## = The exemption of DecaBDE in polymeric applications according to Decision 2005/717/EC was overruled by the European Court of Justice in its Judgment of 1 April 2008. Accordingly, DecaBDE is included in the sum of PBDE from 1 July 2008 onwards
5. "-" = Not regulated
6. The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

### Phthalate(s)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Dibutyl Phthalate (DBP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.003
Benzylbutyl Phthalate (BBP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.003
Di-(2-ethylhexyl) Phthalate (DEHP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.003
Diisononyl Phthalate (DINP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.01
Di-n-octyl Phthalate (DNOP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.003
Diisodecyl Phthalate (DIDP)	% (w/w)	ASTM D3421-75. GC-MS.	N.D.	0.01

### Note :

1. mg/kg = ppm; 0.1% = 1000ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

For reference: According to EU Directive 2005/84/EC,

- (1) The phthalates DEHP, DBP, BBP shall not be used as substances or as constituents of preparation, at concentrations of greater than 0.1% by mass of plasticized material, in toys and childcare articles.
- (2) The phthalates DINP, DIDP, DNOP shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticized materials, in toys and childcare articles which can be placed in the mouth by children.

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## Test Report

No. TSNEC0800032901

Date: 03 Dec 2008

Page 4 of 4

Sample photo:



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

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