

# PP rigid sheets

**Polypropylene rigid sheets**

**PP-S series**



<b>Classifications</b>	<p>PPC Sheets (PP copolymer sheets)                  PPH Sheets (PP homopolymer sheets)                  PPS Sheets (PP fire retardant sheets)                  PP Fiber Glass Sheets</p>
<b>Sizes</b>	<p>Thickness range: 2mm~30mm                  Width: 1000mm~1500mm (for thk. 2mm~20mm)                  1000mm~1300mm(for thk. 25mm~30mm)                  Length: Any length.</p>
<b>Surface</b>	<p>Glossy, embossed (can make the exact patterns according to customers' requirements.)</p>
<b>Standard Colors</b>	<p>Natural, grey (RAL7032), black, light blue, yellow and any other colors according to customers' requirements.</p>
<b>Characteristics</b>	<p>Very good welding and processing properties;                  Excellent impact strength;                  Excellent chemical and corrosion resistance;                  Excellent formability;                  Good abrasion resistance and electrical properties;                  Light weight, non-toxic.</p>
<b>Applications</b>	<p><b>1)PPC Sheets (PP copolymer sheets)</b> with high impact strength and superior strength and it's lower susceptibility to tension cracks are widely used for chemical, mechanical and electronic industry, e.g. tanks, Lab equipments, Etching equipments, Semiconductor processing equipments, Plating Barrels, machined parts, industrial doors, swimming pools and so on.</p> <p><b>2)PPH Sheets (PP homopolymer sheets)</b> with the key properties of high rigidity are widely used for chemical, mechanical and electronic industry, e.g. tanks, Lab equipments, Etching equipments, Semiconductor processing equipments, Plating Barrels, machined parts, industrial doors, and so on.</p> <p><b>3)PPS Sheets</b> with excellent low-flammability property are used for special areas, such as in ventilation systems and in electrical engineering.</p> <p><b>4)PP Fiber Glass Sheets</b> with higher strength than common PP sheets are ideal for Structural tanks and linings, Ducts and fume hoods, plating barrels and so on.</p>

---



---

## LIDA PP rigid sheets      PP-S series

---

### Standard sizes

Standard sizes				
Thickness	1220mm×2440mm	1500mm×3000mm	1300mm×2000mm	1000mm×2000mm
2mm	√		√	√
3mm~25mm	√	√	√	√
30mm	√		√	√

We can also provide any other sizes according to your special needs.

### Technical Data Sheet of PPC rigid sheet

	Test Standard (GB/T)	Unit	Typical Value
<b>Physical</b>			
Density	0.90-0.93	g/cm <sup>3</sup>	0.915
<b>Mechanical</b>			
Tensile Strength (Length/Breadth)	≥25	Mpa	29.8/27.6
Elongation (Length/Breadth)	≥12	%	651/607
Notch Impact Strength (Length/Breadth)	≥8	KJ/m <sup>2</sup>	18.8/16.6
Bending Strength	-----	Mpa	39.9
Compressive Strength	-----	Mpa	38.6
Tensile Modulus (Length/Breadth)	-----	Mpa	1401/1322
<b>Thermal</b>			
Vicat Softening Temperature	≥140	°C	154
Hear Shrinkage 140°C/150min (Length/Breadth)	-3~+3	%	-0.41/+0.41
Heat Distortion Temperature (0.45Mpa)	-----	°C	119
<b>Chemical</b>			
35% HCl	±1.0	g/ cm2	-0.12
30% H2SO4	±1.0	g/ cm2	-0.08
40% HNO3	±1.0	g/ cm2	-0.02
40%NaOH	±1.0	g/ cm2	-0.08

---

---

**LIDA PP rigid sheets      PP-S series**

---

---

***Technical Data Sheet of PPH rigid sheet***

	<b>Test Standard (Q/BLD2008-01)</b>	<b>Unit</b>	<b>Typical Value</b>
<b>Physical</b>			
Density	0.90-0.93	g/cm <sup>3</sup>	0.915
<b>Mechanical</b>			
Tensile Strength	≥25	Mpa	30.0
Elongation	≥12	%	17.0
Notch Impact Strength	≥6	KJ/m <sup>2</sup>	6.9
<b>Thermal</b>			
Vicat Softening Temperature	≥140	°C	141.8
Hear Shrinkage (Length/Breadth)	-3~+3	%	-0.13/+0.09
<b>Chemical</b>			
35%±1% (v/v) HCl 5h 60°C	±1.0	g/ cm <sup>2</sup>	0.2
30%±1% (v/v) H <sub>2</sub> SO <sub>4</sub> 5h 60°C	±1.0	g/ cm <sup>2</sup>	0.1
40%±1% (v/v) HNO <sub>3</sub> 5h 60°C	±1.0	g/ cm <sup>2</sup>	0.2
40%±1% (v/v) NaOH 5h 60°C	±1.0	g/ cm <sup>2</sup>	0.1

---



---

**LIDA PP rigid sheets      PP-S series**


---



---

**Technical Data Sheet of PPS rigid sheet**

	<b>Test Standard (GB/T2406-1993)</b>	<b>Unit</b>	<b>Typical Value</b>
<b>Physical</b>			
Density	0.90-0.93	g/cm <sup>3</sup>	0.915
<b>Mechanical</b>			
Tensile Strength (Length/Breadth)	≥25	Mpa	29.8/27.6
Elongation (Length/Breadth)	≥12	%	651/607
Notch Impact Strength (Length/Breadth)	≥8	KJ/m <sup>2</sup>	18.8/16.6
Bending Strength	-----	Mpa	39.9
Compressive Strength	-----	Mpa	38.6
Tensile Modulus (Length/Breadth)	-----	Mpa	1401/1322
<b>Thermal</b>			
Vicat Softening Temperature	≥140	°C	154
Hear Shrinkage 140°C/150min(Length/Breadth)	-3~+3	%	-0.41/+0.41
Heat Distortion Temperature (0.45Mpa)	-----	°C	119
<b>Flammability</b>			
Oxygen Index	-----	%	33.5
Vertical Flame	-----	grade	V-0
<b>Chemical</b>			
35% HCl	±1.0	g/ cm2	-0.12
30% H2SO4	±1.0	g/ cm2	-0.08
40% HNO3	±1.0	g/ cm2	-0.02
40%NaOH	±1.0	g/ cm2	-0.08

ROSH certificate



Test Report

No. TSNEC0900826501

Date: 22 Oct 2009

Page 1 of 5

BAODING LIDA PLASTIC INDUSTRY CO.,LTD
NO 2222 SOUTH THE SECOND RING ROAD BAODING CITY
710000, CHINA

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

- SGS Job No. : 1000534 - TJ
Composition : PP
Model No. : PP
Date of Sample Received : 19 Oct 2009
Testing Period : 19 Oct 2009 - 22 Oct 2009
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.

[Handwritten signature]

Lucid Qi
Lab Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/terms\_and\_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms\_e-document.htm. Attention is drawn to the limitation of liability and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its inspection only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS-CSTC Standards Technical Services Co., Ltd.
Tianjin Branch - Calibration Laboratory.

C1-8 to 9,1/F, No.41, The 5th Avenue TEDA, Tianjin, China 300457
中国·天津·经济技术开发区第五大街41号1层C区6-9号 邮编: 300457

TJCM 245052
t (86-22) 25293899 f (86-22) 25295252 www.cn.sgs.com
t (86-22) 25293899 f (86-22) 25295252 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Test Report

No. TSNEC0900826501

Date: 22 Oct 2009

Page 2 of 5

Test Results:

ID for specimen 1 : TSN09-008265.001  
 Description for specimen 1 : gray plastic sheet

RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321 Ed.1: 2008, ICP-AES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321 Ed.1: 2008, ICP-AES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321 Ed.1: 2008, ICP-AES	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321 Ed.1: 2008, UV-Vis	N.D.	2	1000
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Dibromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Tribromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Tetrabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Pentabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Hexabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Heptabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Octabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Nonabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Decabromobiphenyl	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Sum of PBDEs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Dibromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Tribromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Tetrabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Pentabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Heptabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Octabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	
Decabromodiphenyl ether ##	mg/kg	IEC 62321 Ed.1: 2008, GC-MS	N.D.	5	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its inspection only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

SGS  
 SGS-CSTC  
 Tianjin Branch

C1-8 to 9,1/F.No.41,The 5th Avenue TEDA,Tianjin,China 300457 t (86-22) 25293899 f (86-22) 25295252 www.cn.sgs.com  
 中国·天津·经济技术开发区第五大街41号1层C区8-9号 邮编: 300457 t (86-22) 25293899 f (86-22) 25295252 e sgs.china@sgs.com

TJCM 245053

Member of the SGS Group (SGS SA)



Test Report

No. TSNEC0900826501

Date: 22 Oct 2009

Page 3 of 5

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, jurisdiction and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

SGS-CTI Standards Technical Services Co., Ltd.  
Tianjin Branch Laboratory

C1-8 to 9,1/F.No.41,The 5th Avenue TEDA,Tianjin,China 300457 t (86-22) 25293899 f (86-22) 25295252 www.cn.sgs.com  
中国·天津·经济技术开发区第五大街41号1层C区8-9号 邮编: 300457 t (86-22) 25293899 f (86-22) 25295252 e sgs.china@sgs.com

TJCM 245054

Member of the SGS Group (SGS SA)





Test Report

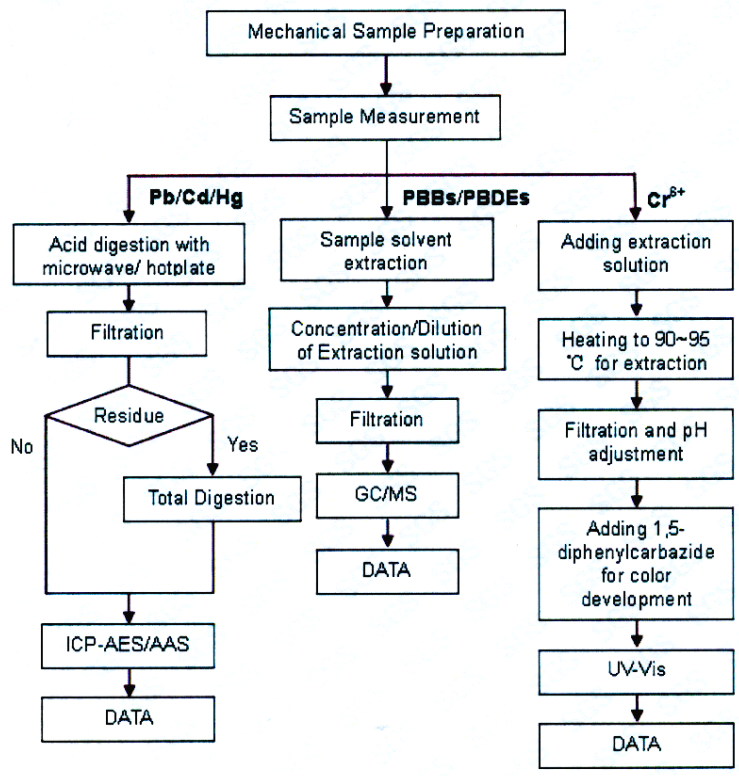
No. TSNEC0900826501

Date: 22 Oct 2009

Page 4 of 5

**Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart**

- 1) Operator : Amy Wang
- 2) Section Chief : Cindy Yin



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its inspection only and is given within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

SGS-CTI Standards Technical Services Co., Ltd.  
Tianjin Branch Laboratory

C1-8 to 9, 1/F, No. 41, The 5th Avenue TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区第五大街41号1层C区8-9号 邮编: 300457

t (86-22) 25293899 f (86-22) 25295252

www.cn.sgs.com  
e sgs.china@sgs.com

**TJCM 245055**

Member of the SGS Group (SGS SA)

**SGS**

Test Report

No. TSNEC0900826501

Date: 22 Oct 2009

Page 5 of 5

Sample photo:



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). Attention is drawn to the limitation of liability, jurisdiction and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its production only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise indicated, the results shown in this test report refer only to the sample(s) tested.

SGS Standards Technological Services Co., Ltd.  
Tianjin Branch / Calibration Laboratory

C1-8 to 9, 1/F.No.41, The 5th Avenue TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区第五大街41号1层C区8-9号 邮编: 300457

TJCM 245056  
t (86-22) 25293899 f (86-22) 25295252 www.cn.sgs.com  
t (86-22) 25293899 f (86-22) 25295252 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

BAODING LIDA PLASTIC INDUSTRY CO, LTD  
No. 2222 South of the Second Ring Road,  
Baoding City, China, 071000  
Tel: 86-312-5381027 Fax: 86-312-5381020  
Email: [ldaplastic@ldsy.cn](mailto:ldaplastic@ldsy.cn)  
Web: [www.ldsy.cn](http://www.ldsy.cn)