

# TEST REPORT

NO. : (2018) 2070127

Product Description: Multilayer Laminated Plastic Bag intended for foods (PET/VMPET/LDPE)

Model Type/Specification:175\*117\*0.11mm

Entrusting Organization: Qingdao Tongli Packaging Products Co., Ltd.

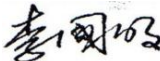
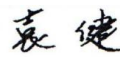
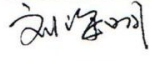
Test Type: Entrusted inspection

Weifang Institute for Product Quality Inspection

## Test report of Weifang Institute of Product Quality Inspection

No. (2018) 2070127

Total 4 Pages 1<sup>st</sup> Page

Product Description*	Multilayer Laminated Plastic Bag intended for foods (PET/MPET/LDPE)	Brand/Trade Mark*	/
Model Type/Specification*	175*117*0.11mm	Test Type*	Entrusted
Entrusting Enterprise	Qingdao Tongli Packaging Products Co., Ltd.	Grade	Qualified samples
Address of enterprise	Zaohu Industrial park, Chengyang District, Qingdao	Sending Date	Jan 31, 2018
Manufacturer	Qingdao Tongli Packaging Products Co., Ltd.	Sending Personnel	Zhang Wusheng
Sample Location	/	Sample Quantity	60 pcs
Sample Batch	/	Sample Description	Fine appearance
Test Quantity	60 PCS	Sample Number	207180145
Test Items		Produce Date	Jan 4, 2018
Environmental of Test	Temperature: 23C°, Humidity 50%, Air Pressure: ___Mpa, as standard		
Test Standard	Q/3700SDXS001-2015 GB/T10004-2008 GB9683-1988		
Test Conclusion	Qualified		
Notes	Responsible for the samples provided only. Manufacturer name provided by the entrusting enterprise. This standard has been declared at the public service platform for enterprise standard information. Inside content 220g, with artwork printed		
Approved By	 2018-02-05	Verified By	 2018-02-05
		Tested By	 2018-02-05

# Appendix of Test report of Weifang Institute of Product Quality

## Inspection

Serial	Test Item	Requirement	Unit	Test Result	Individual Judgment	Note
No. (2018) 2070127                      Feb 5, 2018                      Total 4 Pages 2nd Page						
1	Width Tolerance	±2	Mm	-1~0	Qualified	
2	Length Tolerance	±2	mm	+1~+2	Qualified	
3	Thickness Tolerance %	±10	%	+1	Qualified	
4	Sealed Width Tolerance%	±20	%	+10	Qualified	
5	Appearance	Should comply with 5.2 terms in Q/3700SDXS001-2015	/	Comply	Qualified	
<b>6</b>	<b>Print Quality</b>					
6.1	Artwork appearance	Comply with 4.3 terms in GB/T7707-2008	/	Comply	Qualified	
6.2	Color Overlapping Tolerance					
6.3	Main Part	≤0.20	Mm	0.11-0.13	Qualified	
6.4	Secondary Part	≤0.35	mm	0.15~0.18	Qualified	
<b>7</b>	<b>Tensile Strength</b>					
7.1	Machine Direction	≥50	/	109	Qualified	
7.2	Transverse Direction	≥50	/	89	Qualified	
<b>8</b>	<b>Elongation</b>					
8.1	Machine direction %	30~180	/	47	Qualified	
8.2	Transverse Direction	30~180	/	164	Qualified	
<b>9</b>	<b>Shear Strength</b>					
9.1	Machine Direction	≥6.0	N	13.0	Qualified	
9.2	Transverse Direction	≥6.0	N	10.3	Qualified	

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## Inspection

No. (2018) 2070127		Feb 5, 2018		Total 4 Pages 3rd Page		
Serial	Test Item	Requirement	Unit	Test Result	Individual Judgment	Note
<b>10</b>	<b>Heat Seal Strength</b>					
10.1	Bottom	≥18	N/15mm	52	Qualified	
10.2	Left	≥18	N/15mm	55	Qualified	
10.3	Right	≥18	N/15mm	56	Qualified	
10.4	Top	≥18	N/15mm	50	Qualified	
11	Peel Strength	≥2.0	N/15mm	Unpeelable	Qualified	
12	Burst Impact Strength	≥0.7	J	1.3	Qualified	
13	WVTR (g/m <sup>2</sup> 24h)	≤5.5	/	2.4	Qualified	
14	OTR (cm <sup>3</sup> /m <sup>2</sup> 24h 0.1mpa)	≤16.0	/	0.4	Qualified	
15	Anti-pressure (F=200N,t=1min)	No leak, no break	/	No leak, no break	Qualified	
16	Drop Test H=500mm, W=220g, Vertical and Horizontal for one drop	No break	/	Not break	Qualified	
17	Hot Water Resistance	Without apparent deformation, delamination or peel problems	/	Comply	Qualified	
<b>18</b>	<b>Evaporation Residue</b>					

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## Inspection

No. (2018) 2070127		Feb 5, 2018		Total 4 Pages 4th Page		
Serial	Test Item	Requirement	Unit	Test Result	Individual Judgment	Note
18.1	4% Acetic acid, 60C°, 2h	≤30	mg/L	6	Qualified	
18.2	n-Hexane, room temperature, 2h	≤30	mg/L	18	Qualified	
18.3	65% ethanol, room temperature, 2h	≤30	mg/L	5	Qualified	
19	Potassium permanganate consumption (water) 60C°, 2h	≤10	mg/L	1	Qualified	
20	Toluenediamine (4% Acetic acid)	≤1	mg/L	<1	Qualified	
21	Heavy metal (pb) 4% Acetic acid, 60C°, 2h	≤0.004	mg/L	Not detected (<0.005)	Qualified	
<b>22</b>	<b>Solvents Left</b>					
22.1	Total amount	≤10	mg/m2	4.06	Qualified	
22.2	Benzene solvent	≤2.0	mg/m2	Not detected (<0.01)	Qualified	
23	Soaking	No abnormal odor,turbid, decolorization	/	Comply	Qualified	
24	Appearance	Neat, smooth, no wrinkles, pinhole, cracks, delamination problems	/	Company	Qualified	

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