



**National Test Center of
Polymer & Building Materials**



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No.2015(X)06205

CUSTOMER : ZHONGSHAN GOODLIFE SUN SHEET CO.,LTD

SAMPLES FOR TESTING

Name: Polycarbonate Solid Sheet
Manufacturer: ZHONGSHAN GOODLIFE SUN SHEET CO.,LTD
Brand: GOOD LIFE
Appearance: Transparent sheet
Thickness: 3mm

DATE OF RECEIPT:

2015-5-28

ISSUE DATE:

2015-6-19



DIRECTOR:

[Signature]

CHECK:

[Signature]



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TESTING RESULTS

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Ref No.	Test Item		Technical standard	Test result
1	Tensile strength at yield, Mpa	transversal	≥ 55.0	67.4
		longitudinal	≥ 55.0	67.7
2	Tensile strain at break, %	transversal	≥ 60	127
		longitudinal	≥ 60	116
3	Ball impact test (1m,1kg)	transversal	no crack on the surface	pass
		longitudinal	no crack on the surface	pass
4	Variation rate of heating sizes, % (140°C, 40min)	transversal	± 3.0	-0.20
		longitudinal	± 3.0	-0.56
5	Heat deflection temperature (1.8Mpa), °C		≥ 125	131
6	Horizontal burning, grade		self-extinguish	FH-1
7	Light transmission, %		≥ 85	89.5
8	Water absorption rate (23°C, 24h)		%	0.16
9	Haze		%	0.35
10	Flammability by oxygen index		%	27
11	Shore hardness HD		/	81.6
12	Flexural Strength	transversal	Mpa	74.2
		longitudinal	Mpa	73.8
13	Modulus of Elasticity	transversal	Gpa	2.34
		longitudinal	Gpa	2.30
14	Coefficient of linear expansion (-30°C~+30°C)	transversal	°C ⁻¹	6.55×10^{-5}
		longitudinal	°C ⁻¹	6.57×10^{-5}
15	Max. penetration strength		N	2621
	Max. penetration energy		J	75.31

Note: The specimens were tested in accordance with GB/T 347-2012