



# TECHNICAL DATA SHEET

# ROYAL BOND

Quality results as per GB/T17748-2008

Report No.: 110110220677

Items	Standard index of quality product	Result	Conclusion	
<b>Appearance</b>	Clean surface without swell, flaws, scratch and aberration	Pass	Qualified	
	Length: $\pm 3\text{mm}$	0mm~+2mm		
	Width: $\pm 2\text{mm}$	0mm~+2mm		
	Thickness: $\pm 0.2\text{mm}$	+0.02~+0.07mm		
<b>Deviation of dimension</b>	Deviation of diagonal: $\leq 5\text{mm}$	2mm	Qualified	
	Out of straight at	sides: $\leq 1\text{mm/m}$		0.3mm/m
		Warp: $\leq 5\text{mm/m}$		2mm/m
<b>Thickness of coating</b>	$\geq 25\mu\text{m}$	25u (av.26)	Qualified	
<b>Deviation of luster</b>	$\leq 10$	1,2	Qualified	
<b>Hardness of pencil</b>	$\geq \text{HB}$	HB	Qualified	
<b>Toughness of coating</b>	$\leq 2\text{T}$	2T	Qualified	
<b>Adhesive</b>	Not less than Grade 1	Grade 1 marking method of rolling line	Qualified	
<b>Impact strength</b>	50Kg/cm Without paint off and crack	Pass	Qualified	
<b>Boiling water resistance</b>	Boiling for 2h without change	Unchanged	Qualified	
<b>Acid resistance</b>	Immerse surface with 5% HCl(v/v) for 24h without change	Unchanged	Qualified	
<b>Alkali resistance</b>	Immerse surface with 5% NaOH(m/m) for 24h without change	Unchanged	Qualified	
<b>Oil resistance</b>	Immerse surface with 20# engine oil for 48h without change	Unchanged	Qualified	
<b>Cleaning resistance</b>	$\geq 10,000$ times without change	Unchanged	Qualified	
<b>Solvent resistance</b>	Clean 100 times with butanone without change	Bottom unrevealed	Qualified	
<b>Abrasion resistance</b>	$\geq 5\text{L/um}$	5.2 L/um	Qualified	
<b>Contamination resistance</b>	$\leq 5\%$	3%	Qualified	



<b>Density of surface</b>	Specified value:±0.5Kg/m <sup>2</sup>	5.8Kg/m <sup>2</sup>	Qualified
<b>Bend strength</b>	≥ 100Mpa	100Mpa	Qualified
<b>Flexuous modulus of elasticity</b>	≥2.0 x 10 <sup>4</sup> Mpa	2.5 x 10 <sup>4</sup> Mpa	Qualified
<b>Through resistance</b>	≥ 9.0 KN	9.5 KN	Qualified
<b>Cutting strength</b>	≥ 28.0Mpa	30.0Mpa	Qualified
<b>180° peel strength</b>	≥ 7.0 N/mm	8.0 N/mm	Qualified
<b>Resistance to change of temperature</b>	-30°C ~ 70°C 20 cycles without change	Unchanged	Qualified
<b>Heat deformation temperature</b>	≥ 95°C	96°C	Qualified
<b>Coefficient of heat expansion</b>	≤ 4.00x10 <sup>-5</sup> °C <sup>-1</sup>	2.50x10 <sup>-5</sup> °C <sup>-1</sup>	Qualified
<b>Salt haze resistance 3000h</b>	Not less than Grade 2	Grade 1	Qualified
<b>Artificial resistance aberration 2000 h</b>	≤ 3.0	2,5	Qualified
<b>Aging resistance Out of light</b>	Not less than Grade 2	Grade 1	Qualified
<b>Other aging characteristic</b>	Grade 0	Grade 0	Qualified

\*The test result meets the index requirements of quality product of GB/T17748-2008 and the products sampled are regarded as quality products.