

### TECHNICAL INFORMATION 技術資料

#### KB-150D Unclad 炭膜板

KB-150D is paper based phenolic resin unclad laminate, suitable for precising parts such as rotary potentiometer, slide potentiometer and trimmer potentiometer. It has excellent heat and humidity resistance and is suitable for cold punching.

KB-150D是針對旋轉式電位器、直滑式電位器、微調式電位器等精密元件之需求而開發的紙基酚醛樹脂絕緣積層板。具有良好的耐濕、熱性，並且適用於低溫沖孔加工作業。

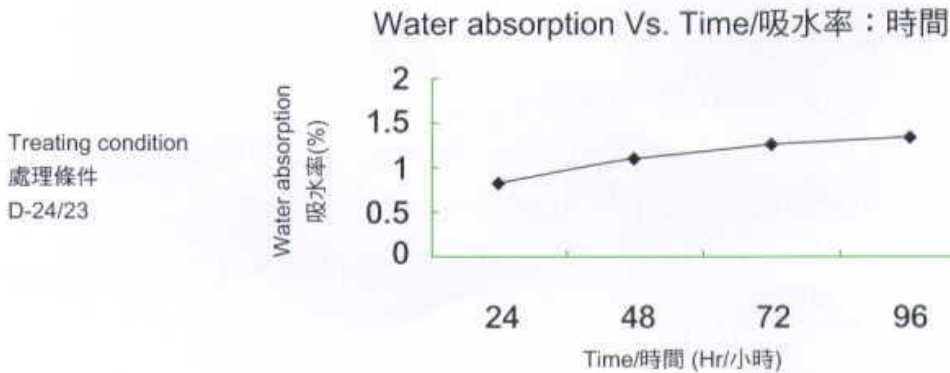
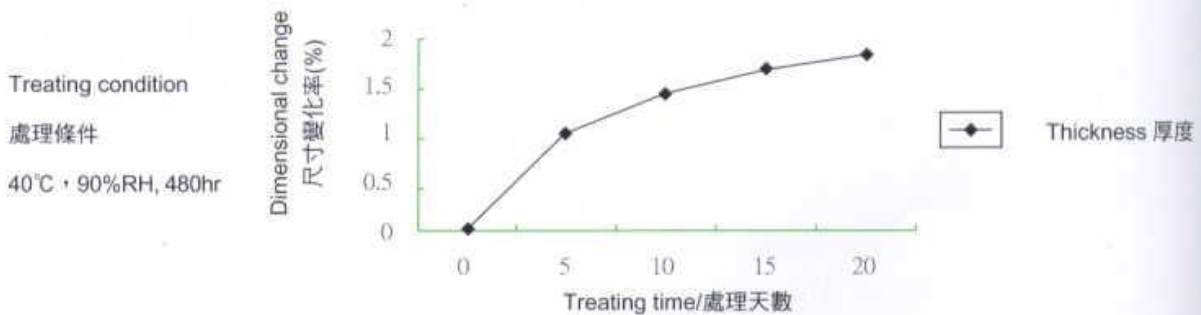
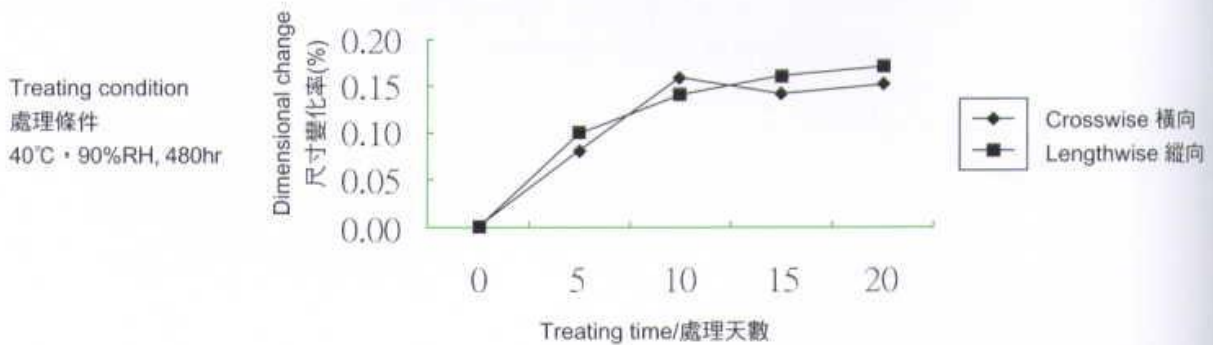
Type 型號	Grade 級別	Construction 組成
KB-150D	ANSI ( NEMA ) XPC	Paper, Phenolic resin 紙、酚醛樹脂
<p><b>Features</b></p> <ul style="list-style-type: none"> <li>◆ Excellent carbon oil adhesion</li> <li>◆ Suitable for punching at 20°C ~ 60°C</li> <li>◆ Warpage and twist are small and stable</li> <li>◆ Excellent thickness uniformity</li> </ul> <p><b>特點</b></p> <ul style="list-style-type: none"> <li>◆ 優異的碳油附着性</li> <li>◆ 適合之沖孔溫度為 20°C ~ 60°C</li> <li>◆ 彎曲度、扭曲度小且穩定</li> <li>◆ 優異的厚度均勻性</li> </ul> <p><b>Standard Configuration 標準數據</b></p> <ul style="list-style-type: none"> <li>◆ Thickness 厚度 : 0.4mm - 3.0mm (IPC-4101 Class B/L)</li> <li>◆ Regular Size(mm)常規尺寸 : 1020x1020 , 1020x1220</li> <li>◆ Other Size其他尺寸 : As specified by customers</li> </ul>		

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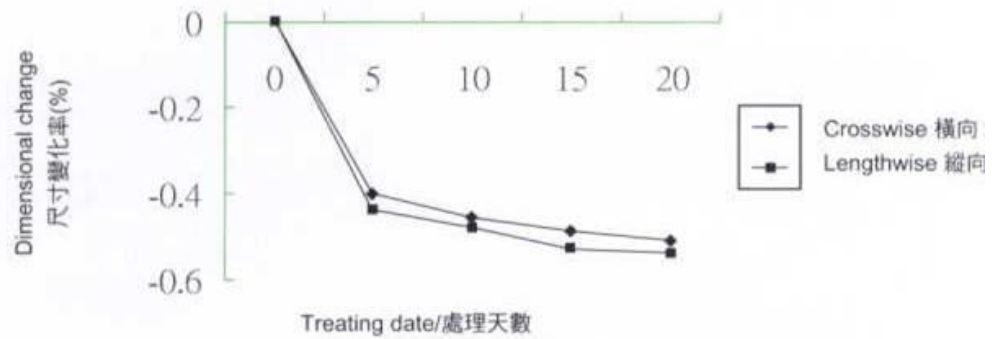
#### Performance 性能

#### Dimensional change after humidity treatment/ 濕度處理後板材尺寸變化率

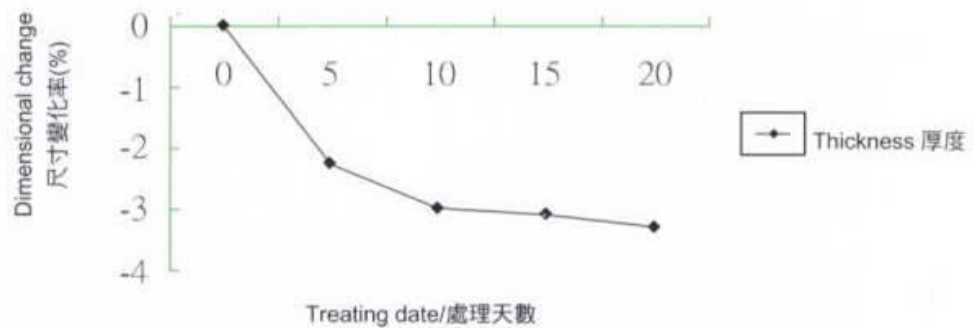


### Dimensional change after heat treatment / 加熱處理後板材尺寸變化率

Treating condition  
處理條件  
100°C, 480hr

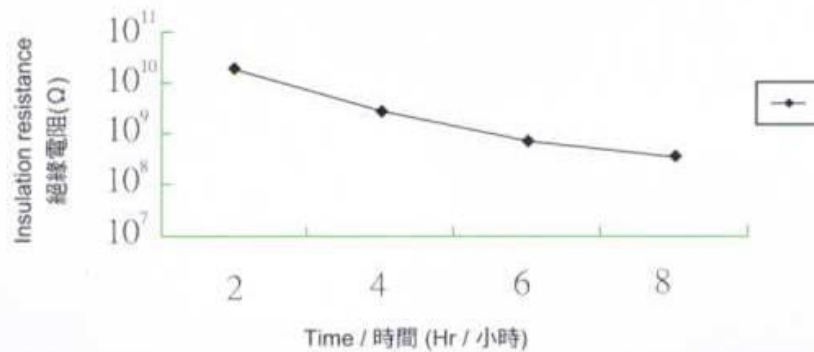


Treating condition  
處理條件  
100°C, 480hr



### Insulation resistance after water boiling / 煮沸後絕緣電阻變化

Treating condition  
處理條件  
100°C, 8hr





# 建滔積層板有限公司 KINGBOARD LAMINATES LTD

香港新界沙田火炭坳背灣街 2-12 號威力工業中心五字樓 K 座  
5/F., Block K, Valiant Industrial Centre, 2-12 Au Pui Wan St., Fo Tan, Shatin, NT, Hong Kong.  
TEL: (852) 2605 6493 FAX: (852) 2691 5245 / 2691 0445

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### KB-150D Unclad 炭膜板

### General Properties 一般特性

TEST ITEM 測試項目	UNIT 單位	TEST CONDITION 處理條件	TESTING METHOD 測試方法	TYPICAL VALUE 典型值
Heat Resistance 耐熱性	—	200°C 30min	JIS C 6481	No Change 無異常
Flexural Strength 屈曲強度	Lengthwise 縱向	A	JIS C 6481	14~18
	Crosswise 橫向			13~17
Volume Resistivity 體積電阻率	Ω-cm	C-96/20/65	JIS C 6481	1.0 x 10 <sup>12</sup> ~ 10 <sup>13</sup>
		C-96/20/65+C-96/40/90		1.0 x 10 <sup>10</sup> ~ 10 <sup>11</sup>
Surface Resistance 表面電阻	Ω	C-96/20/65	JIS C 6481	1.0 x 10 <sup>11</sup> ~ 10 <sup>12</sup>
		C-96/20/65+C-96/40/90		1.0 x 10 <sup>9</sup> ~ 10 <sup>10</sup>
Insulation Resistance 絕緣電阻	Ω	C-96/20/65	JIS C 6481	1.0 x 10 <sup>11</sup> ~ 10 <sup>12</sup>
		C-96/20/65+D-2/100		1.0 x 10 <sup>9</sup> ~ 10 <sup>10</sup>
Moisture Absorption 吸水性	%	E-24/50+D-24/23	JIS C 6481	1.2-1.5
Flammability 阻燃性	Sec/秒	A	UL94	HB
Punching Temperature 沖孔溫度	°C	A	KB-QA-007	20~60
Chemical Resistance 耐化學性	—	3%的NaOH溶液40°C恒溫 3min	JIS C 6481	No Change 無異常

Remarks: Typical Values for reference only 註：典型值只作參考