

Contactless IC Card Durability Testing

(April 2006) Independent laboratory test results reveal that printed *Teslin®* substrate contactless IC cards withstand flexing and IC mechanical stresses better than printed PVC cards.

Dynamic Bending			
Product	Length Flex	Width Flex	Response
PVC cards	2 cm	1 cm	Fracture after 19000-26000 cycles
<i>Teslin</i> substrate cards	2 cm	1 cm	No Fracture after 40000 cycles

3-Wheel Test (ISO/IEC 10373-3:2001—100 cycles, 30 cycles/minute)		
Product	Center Wheel Load	Contactless Reader Response After Load Cycling?
PVC cards	8N	Yes
PVC cards	15N	No
<i>Teslin</i> substrate cards	8N	Yes
<i>Teslin</i> substrate cards	15N	Yes
<i>Teslin</i> substrate cards	18N	Yes

3-Roller Test		
Product	Top Roller Load	Contactless Reader Response After 10 Passes?
PVC cards	180N	No
<i>Teslin</i> substrate cards	180N	Yes



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