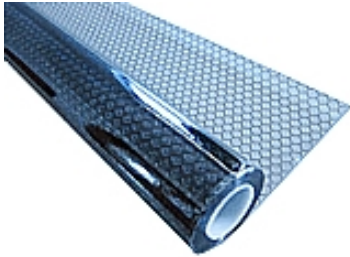


CERTIFICATE OF CONFORMANCE

CLEANTECH®
 HappyCom Corporation
 Made in Korea



Product Name: ESD Carbon Grid PVC Sheet
 Certificate Number: CCT-017
 Issued Number: 2004-4-15
 Issued For: Customers

Technical Data	Print Side	Back	Test Method
Surface Resistance	$2 \times 10^6 \Omega/\square$	$3 \times 10^{11} \Omega/\square$	ASTM D-257
Volume Resistance	$6 \times 10^{11} \Omega \text{ cm}$		
Electrostatic Voltage	<50 V	<100 V	Electro Static Field Meter
Electrostatic Decay	<0.5 sec	<1.0 sec	MIL-B-81705C, 5000V-500V
Flame Retardant	PASS		JIS A-1322
Tensile Strength	Length/MD	1.8kg/mm ²	ASTM D-882
	Width/TD	1.8kg/mm ²	
100% Modulus	Length/MD	1.1kg/mm ²	ASTM D-882
	Width/TD	1.8kg/mm ²	
Elongation	Length/MD	170%	ASTM D-882
	Width/TD	210%	
Heat Shrinkage	60°C x 30min in H ₂ O <5%		
Size	0.3mm(T) * 1,370mm(W) * 30m		
	0.5mm(T) * 1,200mm(W) * 30m		

Prepared By	Approved by
Sang Hee, Jun	QA Manager
April 15, 2004	April 17, 2004