



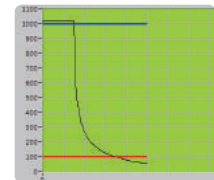
Patent Number : 10-1928853

Low Charge Hand Roller which is developed by silicone polymer and has electrostatic voltage low charge and has weak / medium / strong adhesion. Static electricity generated when cleaning the product is quickly removed through the Low Charge Roller and frame and ground wire, minimizing secondary contamination due to static electricity.

Assembly veiw



Decay-Time



Features

- Low charge, Adhesion control to silicone polymer.
- No organic contamination on roller surface .
- Low charge roller (surface resistance $10^{7-9} \Omega$).
- Low charge frame (surface resistance $10^{4-6} \Omega$).
- Static electricity generated by roller can be quickly removed through a ground line.

Maintenance

- Particles on the roller are cleaned using a HCR Pad.
- After thoroughly wetting the clean wiper with IPA (IsoPropyl Alcohol, IPA), clean the roller surface and dry the remaining IPA on the roller for 2 minutes or more.
- Do not contact it on the HCR Pad for a long time.
- Do not expose to organic solvents, acids or bases for long periods of time.

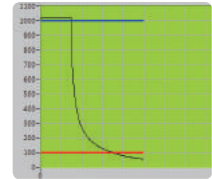
Specification

Model	Size [mm]	Adhesion [gf] Note 1)	Hardness [shore 'A']	Color	Decay Time [Sec]	Resistance [Ω]
LCHRX-150	150 x ϕ 32	1 : 100 strong 2 : 85 medium 3 : 70 weak	20 30 50	Red, Gray, Blue	1 <	Surface resistance $10^{7-9} [\Omega]$
LCHRX-250	250 x ϕ 32					
LCHRX-300	300 x ϕ 32					
LCHRX-350	350 x ϕ 32					

Note 1) Adhesion measurement: Reference weight 100 [g].



Decay-Time



Cleaner roller developed by silicone polymer. Low charge clean roller which is manufactured by low charge of electrostatic voltage, and by weak / medium / strong adhesion. Especially, minimize the friction and peeling static electricity generated between the product and the clean roller, and remove the environmental particles in the product by using the adhesive force. The particles on the roller are removed by adhesive roll.

Features

- Low charge, Adhesion control to silicone polymer.
- No organic contamination on roller surface.
- Low charge clean roller (surface resistance $10^{9-11} \Omega$).
- Has stable heat resistance and weatherability.

Maintenance

- Particles on the roller are cleaned using a adhesive roll.
- After thoroughly wetting the clean wiper with IPA (IsoPropyl Alcohol, IPA), clean the roller surface and dry the remaining IPA on the roller for 2 minutes or more.
- Do not contact it on the adhesive roll for a long time.
- Do not expose to organic solvents, acids or bases for long periods of time.

Specification

Model	Size [mm]	Adhesion [gf] Note 1)	Hardness [shore 'A']	Color	Decay Time [Sec]	Resistance [Ω]
LCCR-X-L	- 외경 : $\phi 20 \sim \phi 200$ - 길이 : 100 ~ 2500mm	1 : 110 2 : 90 3 : 80 4 : 75	35 40 50 60	White, Gray, White Gray, Etc.	1 <	기본 : $10^{11} [\Omega]$ 이하

Note 1) Adhesion measurement: Reference weight 50 [g].

HCR PAD

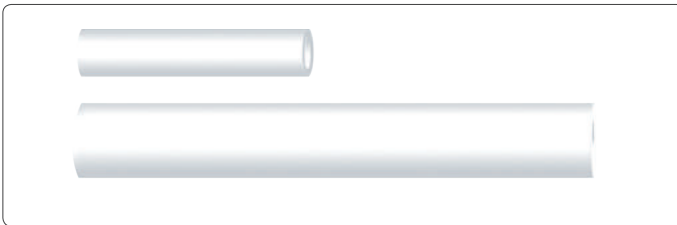


- HCR PAD is coated with special adhesive, Remove the particles on the surface of the Hand Roller.

Specification

Model	Size [mm]		Adhesion (gf/25mm)	Packing Unit	note
HCR-330	330 × 240	50 Sheet / 권	400, 800, 1200	5 권 / BOX	

ADHESIVE ROLL

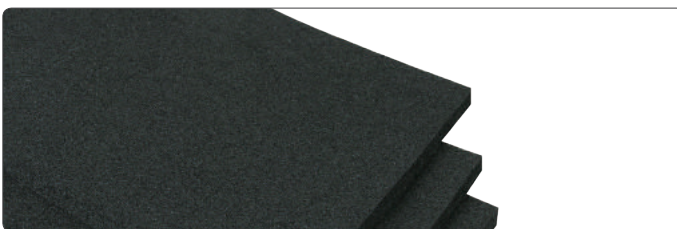


- Adhesive Roll removes particles on the surface of Clean Roller in real time.

Specification

Model	Size [mm]	Sheet	Material	Adhesion (gf/25mm)	Thickness	Core	Packing Unit
HAR1-L	1.5inch	Φ38 X Max 1300 X 20M / Roll	PP(YUPO)	400, 800, 1200	80±5um	PE	10Roll / 1BOX
HAR3-L	3inch	Φ76 X Max 1600 X 20M / Roll					4Roll / 1BOX

Low Charge EPDM SPONGE



- Excellent ozone, abrasion resistance, aging resistance and moisture resistance.
- Chemical resistance (acid, alkali, acetone, alcohol, hydraulic oil) strong.
- Surface resistance $10^{8-9} \Omega$.
- Low permanent compression ratios.
- High thermal insulation.
- Preventing static electricity and protecting the product from impact.

Specification

Model	Thickness (mm)	Size(mm)	Resistance[Ω]	Density(kg/m ³)
LC-EPDM-S-L	1~30 Order made	1000 X 2000	$10^{8-10} [\Omega]$	65 ± 10%



Low Charge Sheet

This is a Low Charge sheet that removes static electricity by contacting a charged worker or products.

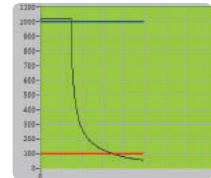
Features

- No organic contaminants on the surface.
- Surface resistance $10^{4-6} \Omega$.
- The generated static electricity is removed quickly through the ground terminal.

Maintenance

- After thoroughly wetting the clean wiper with IPA (IsoPropyl Alcohol, IPA), clean the roller surface and dry the remaining IPA on the roller for 2 minutes or more.
- Do not expose to organic solvents, acids or bases for long periods of time.

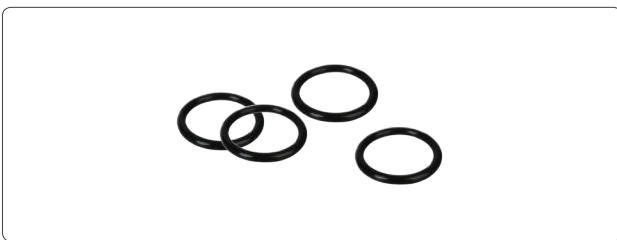
Decay-Time



Specification

Model	Size [mm]	Hardness [shore 'A']	Color	Decay Time [Sec]	Resistance [Ω]
LCSHEET	50 x 1000 x 1T 100 x 1000 x 1T 150 x 1000 x 1T	60	Dark Gray	1 <	Surface resistance $10^{4-6} [\Omega]$

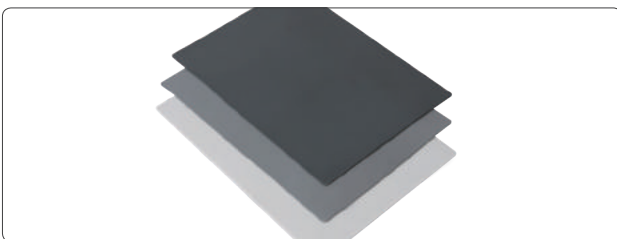
Low Charge O-Ring



Low Charge Vacuum PAD



Low Charge Adhesion Sheet



Low Charge Mat

