

# Handbook for improvement of industrial roller using Fluorine resin heat shrinkable tube

#### **GRC**



**Gunze Ltd. Engineering Plastics Division** 

Osaka TEL.+81-6-6245-0263 Tokyo TEL.+81-3-3276-8716



## Contents of Improvement cases

#### **Features of Fluorine resin**

- Case 1. Prevent adhesion of sediment or sticky substance on rollers
- Case 2. Prevent corrosion/ rust due to chemicals
- Case 3. Prevent occurrence of wrinkles by roller
- Case 4. Prevent adsorption of dirt and dust due to static electricity
- Case 5. Prevent occurrence of spark due to static electricity
- Case 6. Prevent abrasions/ micro scratches due to static electricity
- Case 7. Reduce roller consumption by using stainresistant roller (water-based ink, solution)
- Case 8. Reduce roller consumption by using stainresistant roller (oil-based ink, solution)

Introduction of GRC series

**Contact Information** 



### Features of Fluorine resin

Chemical resistance

Inactive to almost all chemicals

Heat resistance

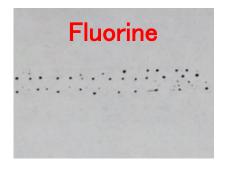
Continuous use temperature 200°C or more

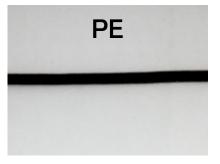
Electrical characteristics

Low-dielectric constant

Non-tacky

**Excellent releasing property** 





Low frictional properties

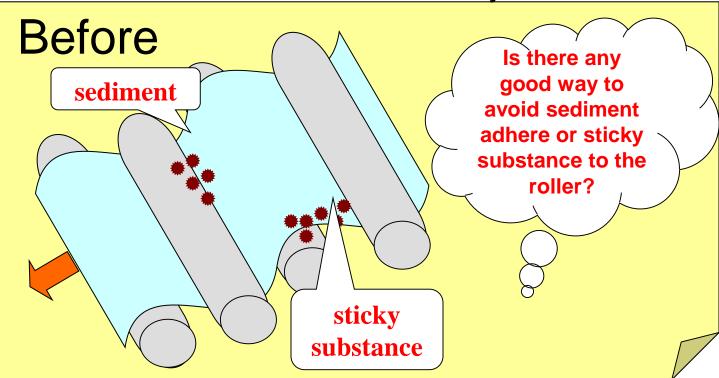
Slippery as ice

Weather resistance

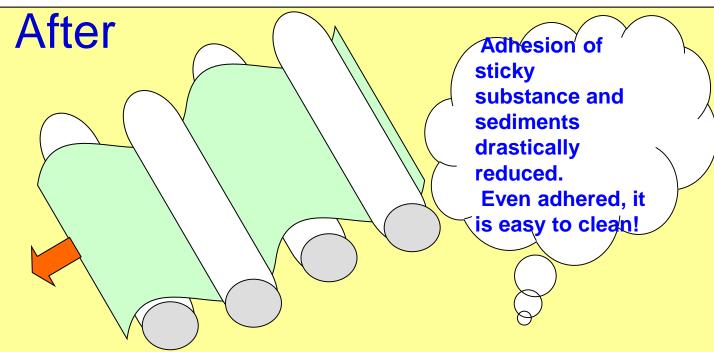
It does not degrade even after long-term use outdoors



Case1 Prevent adhesion of sediment or sticky substance of rollers



#### Just to cover with GRC

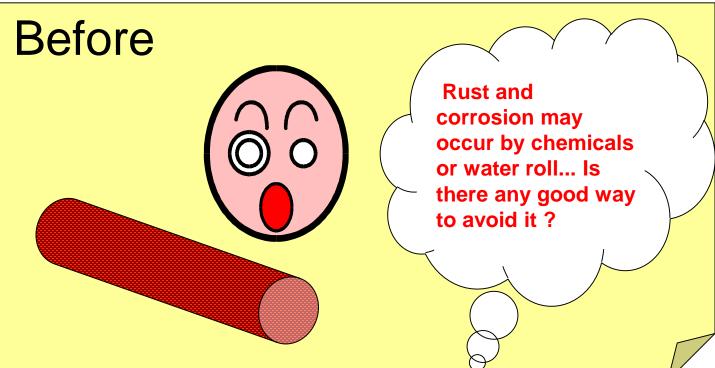


#### **Application Examples:**

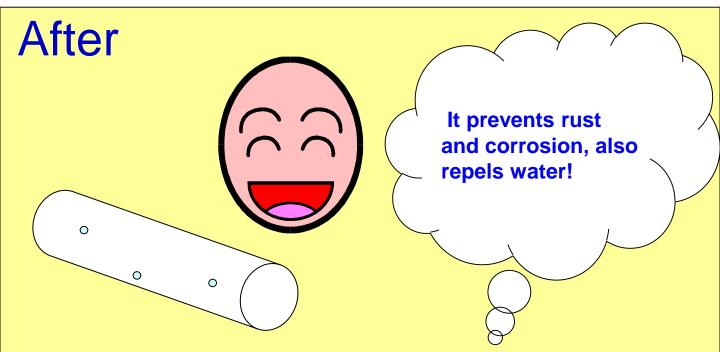
Laminating process, Non-woven fabric/ Filter papermanufacturing process, Adhesive tape manufacturing process, Special paper/ film coating process, Roller for adhesive tape slitting process, Expander roller, etc.



#### Case2 Prevent corrosion/rust due to chemicals



#### Just to cover the GRC

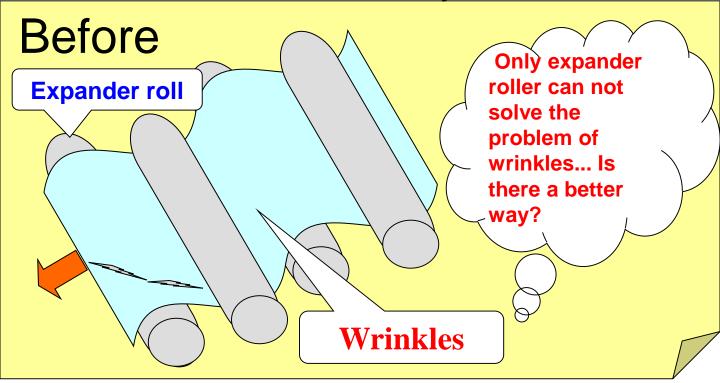


#### **Application Examples:**

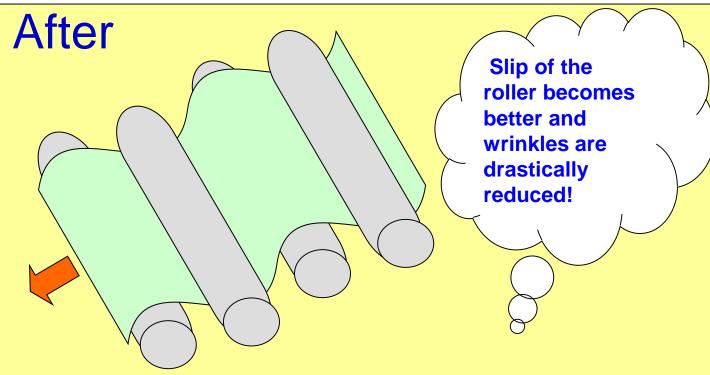
Roller for cleaning/ drying process of various substrates, Roller for printing, Chemical solution application Roller for coating process



#### Case3 Prevent occurrence of wrinkles by roller



#### Just to cover the GRC

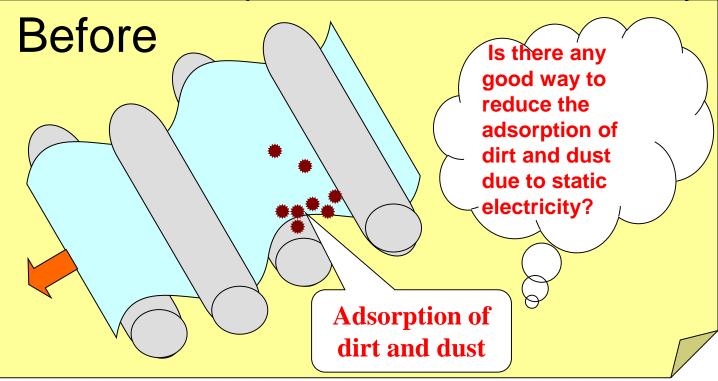


#### **Application Examples:**

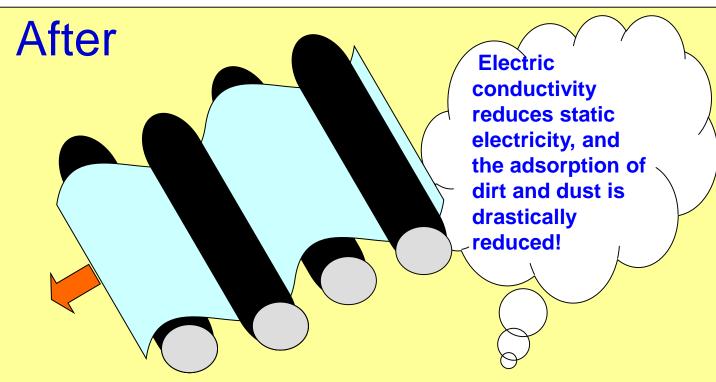
Special paper/ film coating process, Roller for non-woven fabric / Filter paper-manufacturing process etc., Expander Roller



#### Case4 Prevent adsorption of dirt and dust due to static electricity



#### Just to cover with GRC-PB

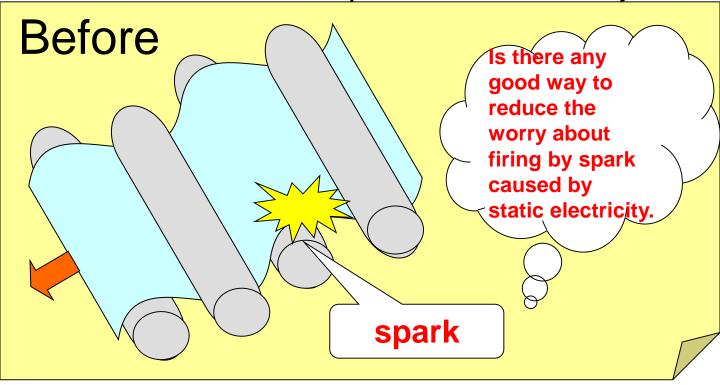


#### **Application Examples:**

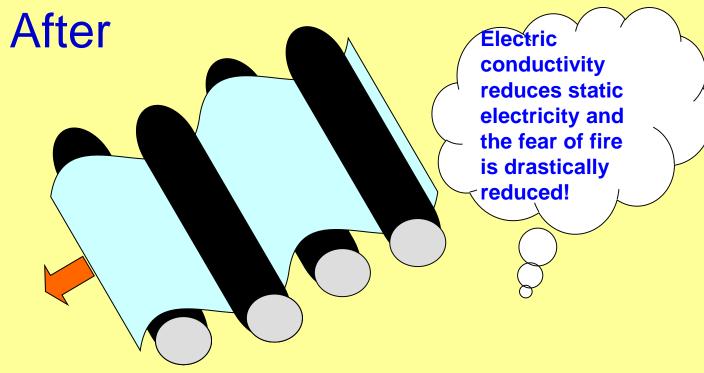
Manufacturing processes and coating process for film, sheet, nonwoven fabric, special paper etc.



#### Case5 Prevent occurrence of spark due to static electricity



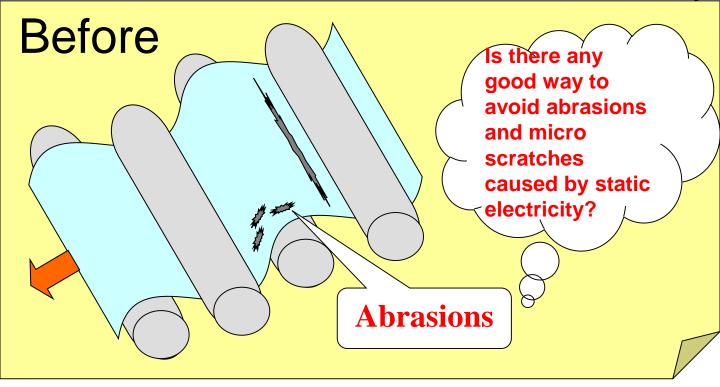
#### Just to cover with GRC-PB



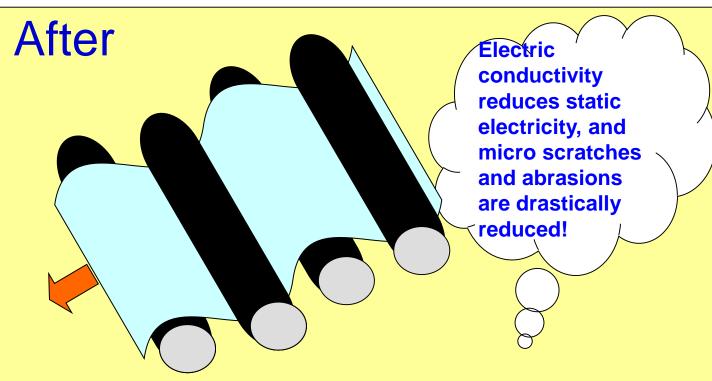
**Application Examples:** 

Coating process of film/ sheet, printing process of film/ paper

#### Case6 Prevent abrasions/ micro scratches due to static electricity



#### Just to cover with GRC-PB

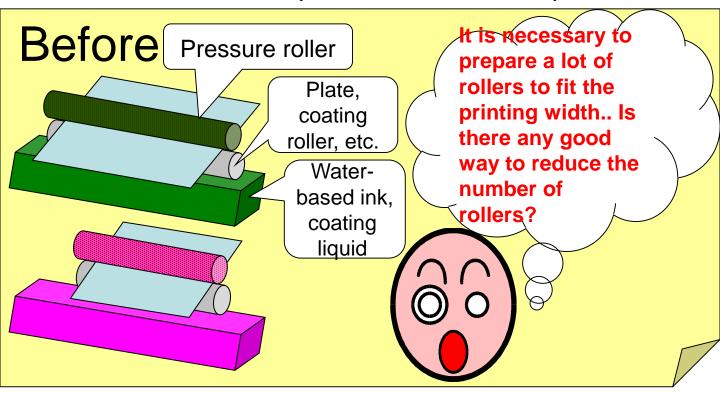


**Application Examples:** 

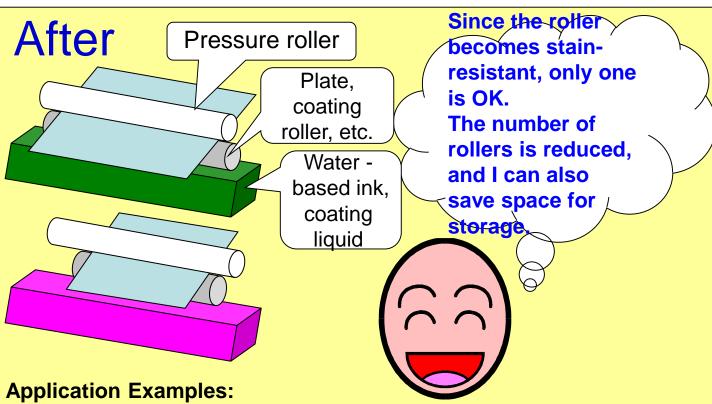
Manufacturing process and slitting process for film/ sheet

#### Case7 Reduce roller consumption by using stainresistant roller (water-based ink, solution)





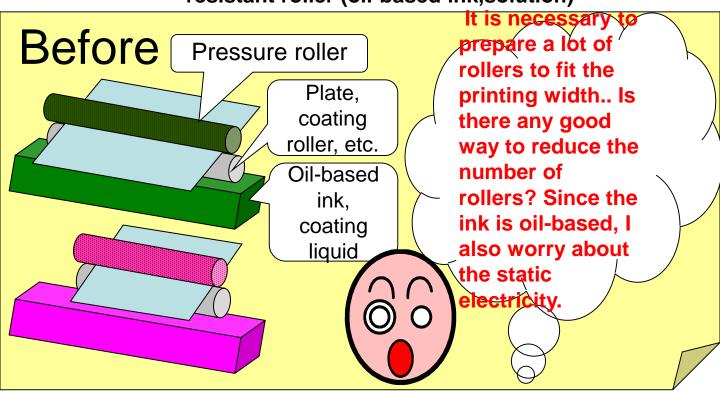
#### Just to cover the GRC



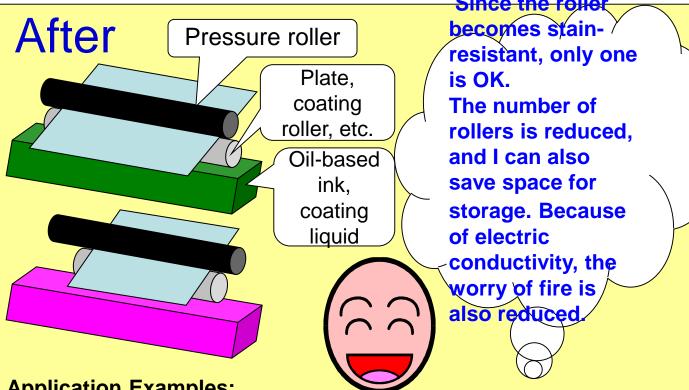
Gravure printing using water-based ink, presser roller for relief printing process, pressure roller for applying waterbased chemical liquid in coating process, etc.

Case8 Reduce roller consumption by using stainresistant roller (oil-based ink, solution)





## Just to cover the GRC-PB



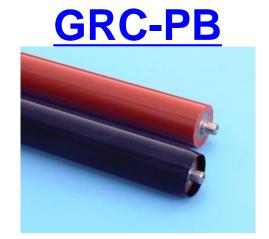
**Application Examples:** 

Gravure printing using oil-based ink, pressure roller for relief printing process, pressure roller for applying oil-based chemical liquid in coating process, etc.



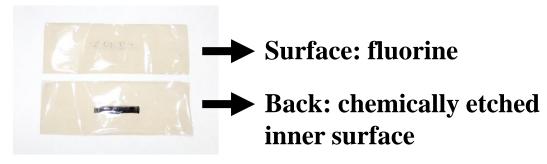
# Fluorine resin Heat Shrinkable Tube GRC series





#### Main features

- Prevent adhesion of dirt
- The antistatic function in PB type
- Seamless, no joint or step
- Adhesion on roller is possible chemically etched inner surface
- There is no fear that the shrinkable tube is peeled from the roller
- Wide range of diameters to cover 17 ~ 300φ rollers is available





## **Contact Information**

## **Gunze Ltd. Engineering Plastics Division**

#### **OSAKA SALES**

HERBIS OSAKA OFFICE TOWER 21F, 2-5-25 UMEDA, KITA-KU, OSAKA, 530-0001 JAPAN TEL.+81(6)7731-5888 FAX.+81(6)7731-5889

#### **TOKYO SALES**

2-10-4, NIHONBASHI, CHUO-KU, TOKYO, 103-0027 JAPAN TEL.+81(3)3276-8716 FAX.+81(3)3276-8723

We do not permit any unauthorized duplication, unauthorized reproduction or unauthorized copying.