

ROLL COVERING FOR THE PLASTIC FILM INDUSTRY

CORONA TREATMENT

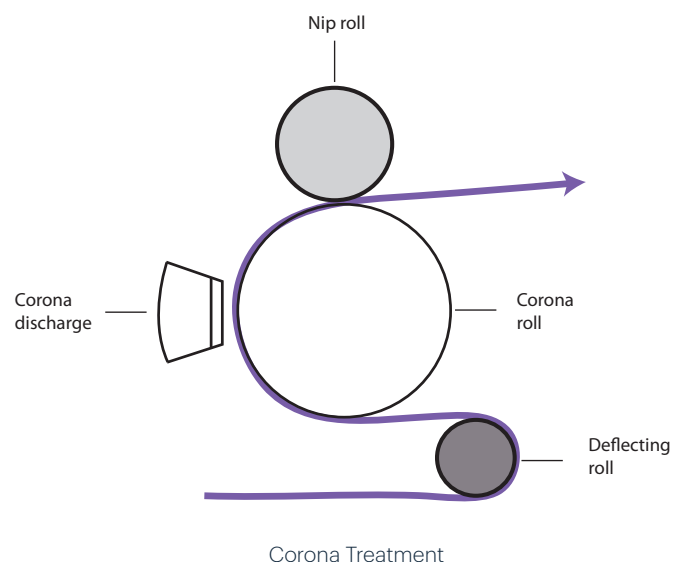
Corona treatment consists in modifying the surface tension of polymer based surfaces in order to enhance their wettability using an electrical discharge.

The low surface energy of most polymer materials causes them to be non-receptive to bonding with inks, adhesives and coatings. In order to improve adhesion it is often necessary to raise the surface energy of the substrate so that it will be slightly greater than the one of the product to apply.

Corona treatment gives good results in the field and makes it possible to increase the surface wettability and thus allows a better applicability of substances like inks and adhesives.

Corona treatment is achieved by means of electrodes positioned above the film surface resulting in a substantial production of ozone.

Thanks to our experience and as a result of continuous research, the solutions proposed by Hannecard guarantee a constant quality and an outstanding stability.



RELATED DOCUMENTS

- Solutions - **'Plastic film industry'**
- Solutions - **'Winding & Slitting'**
- Solutions - **'Bi-oriented plastic film'**
- Solutions - **'Blown Extrusion'**
- Solutions - **'Cast Extrusion'**
- Solutions - **'Plastic film spreading'**
- Solutions - **'PVC & other soft plastics processing'**

DESIRED PROPERTIES FOR THE TREATER ROLLS

- Ozone resistance
- Perfect electrical insulation
- Dielectric stability
- Perfect homogeneity

TREATER ROLL

Solutions	Product	Characteristics and advantages
Standard	Corona-S Grey 70-75-80 shore A	<ul style="list-style-type: none"> • Very good and stable electrical insulator • Excellent electrical stability up to 50 kV discharge • Best available quality/price value
High Performance	Corona-XP Green 70 shore A	<ul style="list-style-type: none"> • Covering range with improved purity • Improved abrasion resistance • Remarkable electrical stability over the complete covering up to 50 kV discharge • For the most stringent requirements in Corona insulation
High performances + Food contact	Corona-XP FDA Gray 70 shore A	<ul style="list-style-type: none"> • Covering with an outstanding purity • Very high resistance to abrasion • Remarkable electrical stability over the complete covering up to 50 kV discharge • For the most stringent requirements in corona insulation • Compatible for food contact

DISIRED PROPERTIES FOR THE NIP ROLLS

- Ozone resistance
- Perfect application of the substrate on the back-up roller
- High dimensional precision
- High abrasion resistance
- Anti-static

NIP ROLL STANDARD SOLUTIONS (ANTI-STATIC)

Solutions	Product	Characteristics and advantages
Standard rubber	NipFoil-S-AS Black 50-75 shore A	<ul style="list-style-type: none"> • Excellent ozone resistance • Good physical properties • Temperature resistance up to 125 °C
High Performance rubber	NipFoil-XP-AS Black 50-65 shore A	<ul style="list-style-type: none"> • Excellent ozone resistance • Excellent physical properties and abrasion resistance • Temperature resistance up to 125 °C
	NipFoil-XPE-AS* Black 55-65-70 shore A	<ul style="list-style-type: none"> • Excellent ozone resistance • Excellent physical properties and abrasion resistance • Temperature resistance up to 130 °C

* New generation Hannecard ECO quality

Special solutions

Solutions	Product	Characteristics and advantages
Silicone rubber Anti-static	NipFoil-HT-AS Black 55-70 shore A	<ul style="list-style-type: none"> • Excellent ozone resistance • Good physical properties and abrasion resistance • Temperature resistance up to 200 °C • Improved release properties • Non-sticking properties
Polyurethane Anti-static	Hannethane-AS Black 50-90 shore A	<ul style="list-style-type: none"> • Very good ozone resistance • Outstanding physical properties and abrasion resistance • Temperature resistance up to 90 °C • Slightly anti-static
Polyurethane Semi-conductor	Hannethane-SC Black 50-85 shore A	<ul style="list-style-type: none"> • Very good ozone resistance • Outstanding physical properties and abrasion resistance • Improved release properties • Temperature resistance up to 90 °C • Anti-static (surface resistivity around 100 kΩ)

MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at: www.hannecard.com