



# BioCor<sup>®</sup> CORROSION PROTECTION FILMS

NATURALLY RELIABLE PROTECTION



SERIES 300



BioCor® has stood for reliable corrosion protection on a natural basis since 2014. Since then, numerous renowned manufacturers from the automotive and metalworking industries have placed their trust in the outstanding protective effect of this formula. BioCor® has already been awarded the „Brand of the Century“ prize by the DIE ZEIT publishing house.

## Scope of Protection

We have further developed the proven formula of BioCor®. The new BioCor® offers even more comprehensive protection against corrosion. In addition to steel, cast iron\*, aluminium, aluminium alloys, zinc, lead\*, tin and magnesium, the new BioCor® also protects copper, brass, bronze silver, nickel\*, titanium\* and chrome\*.

The new BioCor® is available in different product lines. In addition to the proven Classic Film, the BioCor® CF, we have developed even more environmentally friendly versions. The BioCor® HP is a high strength film which reduces film thickness whilst withstanding large loads from a thickness of 50 µm. The R-Series films contain up to 75 % recycled material and ensure enormous CO<sub>2</sub> savings and a significant improvement in the environmental balance.

\* Protects only with direct contact







## Our Product Lines

### Classic

BioCor® 300 CF

### HighPerformance

BioCor® 300 HP

### Recycling

BioCor® 300 RY

### Recycling HighPerformance

BioCor® 300 RP

### BioCor® Food

BioCor® 300 BF\*

\*food save, lower protection level

## Function of the BioCor® Corrosion Protection Film

BioCor® corrosion protection films work according to the VCI method. VCI stands for Volatile Corrosion Inhibitor. These inhibitors are released within closed packaging and wrap themselves around like an invisible protective cover, that prevents the metal from reacting with air and moisture. After unpacking, the VCI evaporates without leaving any residue. This means that the packed item can be used directly without additional cleaning.



Further information at  
<https://youtu.be/rFYtTMaOnlQ>



## Advantages of BioCor®

- VCI on a natural basis
- Easy to use
- Sealable
- High puncture resistance
- Temperature resistant
- Transparent for easy viewing of the packed goods
- Top marks in key automotive tests
- Occupationally safe
- Free from amines and nitrites
- Free from substances according to TRGS 615 and TRGS 900
- No odour
- Available in various delivery forms
- Recyclable
- New standards, therefore better availability



## Technical Product Data Sheet

### BioCor® 300 CF

BioCor® ClassicFilm is our proven classic among corrosion protection films. It offers reliable corrosion protection for daily use.



#### Delivery Options



Flat bags



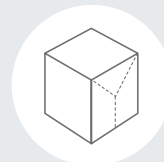
Side gusseted bags



Grip seal/zipper bags



Shower caps



Y-hoods



Flat films



Tube films



Film Cuttings



Half tube films

**Other delivery  
forms on  
request.**



## Technical Information BioCor® 300 CF

Parameter	300 CF	Unit	Test method
Total thickness	80	µm	DIN 53370
Dosage	1 m <sup>2</sup> protects up to 200 l volume		
Build-up phase	Approx. 1 hour (depending on temperature and packaging volume)		
Puncture resistance Dart – Drop	≥ 180	g	ASTM D 1709/A
Tensile and tear strength at least	≥ 18	MPa (N/mm <sup>2</sup> )	DIN 53455
Elongation strength at least	≥ 280	%	DIN 53455
Storage	3 years		

All specifications are subject to the usual tolerances according to DIN and ASTM.

Scope of protection: steel, cast iron\*, aluminium and aluminium alloys, zinc, lead\*, tin, magnesium, copper, brass, bronze, silver, nickel\*, titanium\* and chrome\*.

\*Protects only with direct contact

### Application

- Packed metal goods should be clean and dry.
- Wear gloves to avoid transferring hand perspiration to the metal.
- Avoid condensation - when packing, the packed goods temperature should be = ambient temperature.
- Closed and tight packaging.
- Avoid direct contact between the metal packed goods and wood, paper or cardboard without VCI.

Please ask our technical advisors, who will be happy to assist you in creating a packaging guideline for your application.



## Technical Product Data Sheet

### BioCor® 300 HP

BioCor® HighPerformance films combine all advantages of BioCor® Classic while making an important contribution to environmental protection. It already offers reliable corrosion protection from a thickness of 50 µm, even under heavy loads.

**Further advantages:**

- High strength
- Less waste through reduced thickness
- Improvement of your environmental footprint
- Less storage capacity required/space saving



### Delivery Options



Flat bags



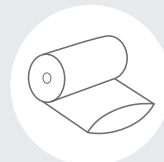
Side gusseted bags



Shower caps



Flat films



Tube films



Film Cuttings



Half tube films

Other delivery forms on request.



## Technical Information BioCor® 300 HP

Parameter	300 HP LC II*	300 CF	Unit	Test method
Total thickness	Comparable to a 110 - 150 µm LDPE film	120	µm	DIN 53370
Dosage	1 m <sup>2</sup> protects up to 200 l volume			
Build-up phase	Approx. 1 hour (depending on temperature and packaging volume)			
Puncture resistance Dart – Drop	≥ 450	≥ 200	g	ASTM D 1709/A
Tensile and tear strength at least	≥ 25	≥ 20	MPa (N/mm <sup>2</sup> )	DIN 53455
Elongation strength at least	≥ 550	≥ 470	%	DIN 53455
Storage	3 years			

All specifications are subject to the usual tolerances according to DIN and ASTM.

\*LC = Loading Class, for more information see <https://metprogroup.com/en/produkte/biocor-vci-korrosionsschutz/biocor-vci-folien/>

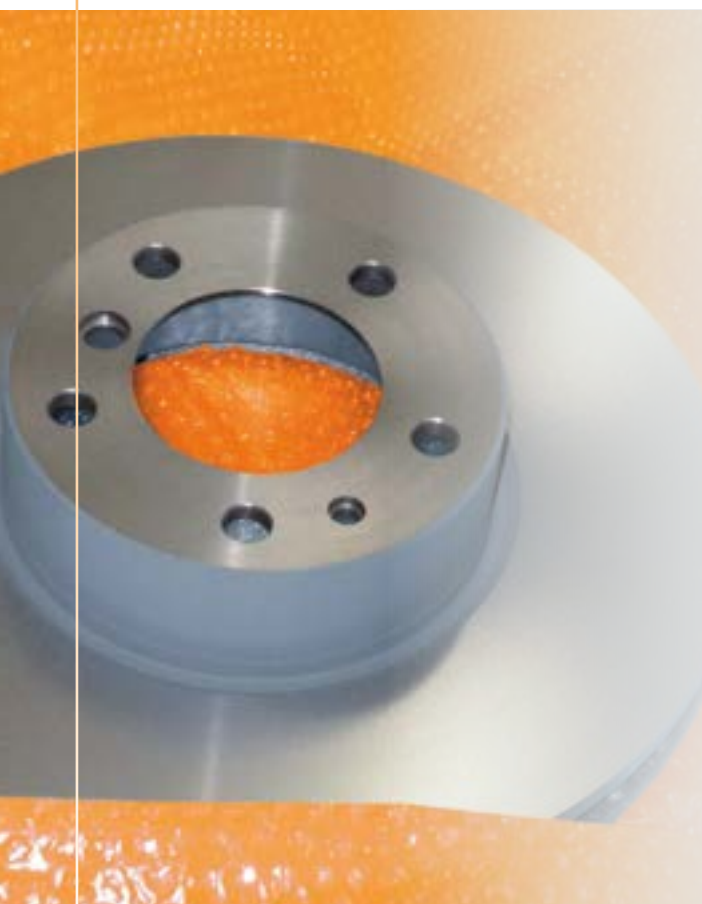
Scope of protection: steel, cast iron\*, aluminium and aluminium alloys, zinc, lead\*, tin, magnesium, copper, brass, bronze, silver, nickel\*, titanium\* and chrome\*.

\*Protects only with direct contact

## Application

- Packed metal goods should be clean and dry.
- Wear gloves to avoid transferring hand perspiration to the metal.
- Avoid condensation - when packing, the packed goods temperature should be = ambient temperature.
- Closed and tight packaging.
- Avoid direct contact between the metal packed goods and wood, paper or cardboard without VCI.

Please ask our technical advisors, who will be happy to assist you in creating a packaging guideline for your application





## Technical Product Data Sheet

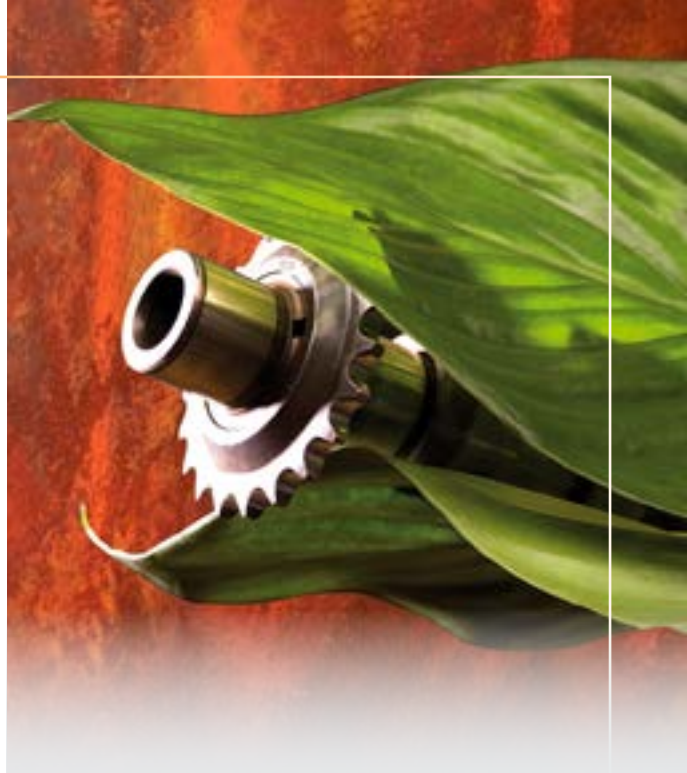
### BioCor® 300 RY

BioCor® films with recycled material contain up to 75 % recycled material from high-quality post consumer waste and thus make an important contribution to improving your environmental balance. At the same time, they offer the usual reliable corrosion protection of BioCor®.

#### Further advantages:

- Contains up to 75 % recycled material from commercial post consumer waste
- Approx. 30 % CO<sub>2</sub> savings during production
- Comparable properties to conventionally produced VCI films
- Reduces or avoids the „plastic tax“

Further information at  
<https://youtu.be/N14Au72PiXY>



### Delivery Options



Flat bags



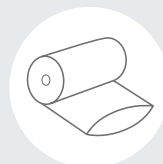
Side gusseted bags



Shower caps



Flat films



Tube films



Film Cuttings



Half tube films

Other delivery forms on request.

## Technical Information BioCor® 300 RY

Parameter	300 RY	300 CF	Unit	Test method
Total thickness	80	80	µm	DIN 53370
Dosage	1 m <sup>2</sup> protects up to 200 l volume			
Build-up phase	Approx. 1 hour (depending on temperature and packaging volume)			
Puncture resistance Dart – Drop	≥ 190	≥ 180	g	ASTM D 1709/A
Tensile and tear strength at least	≥ 20	≥ 18	MPa (N/mm <sup>2</sup> )	DIN 53455
Elongation strength at least	≥ 350	≥ 280	%	DIN 53455
Storage	3 years			

All specifications are subject to the usual tolerances according to DIN and ASTM.

Scope of protection: steel, cast iron\*, aluminium and aluminium alloys, zinc, lead\*, tin, magnesium, copper, brass, bronze, silver, nickel\*, titanium\* and chrome\*.

\*Protects only with direct contact

## Application

- Pack metal goods cleanly and dryly.
- Wear gloves to avoid transferring hand perspiration to the metal.
- Avoid condensation - when packing, the packed goods temperature should be = ambient temperature.
- Closed and tight packaging.
- Avoid direct contact between the metal packed goods and wood, paper or cardboard without VCI.

Please ask our technical advisors, who will be happy to assist you in creating a packaging guideline for your application





## Technical Product Data Sheet

### BioCor® 300 RP

BioCor® RP is a high-performance film with 30 % recycled post consumer waste. It offers reliable corrosion protection from a thickness of 60 µm, even under heavy loads.

**Further advantages:**

- Contains 30 % of recycled material from commercial post consumer waste
- Improvement of your environmental balance due to CO<sub>2</sub>-reduced production
- High strength
- Reduces or avoids „plastic tax“



### Delivery Options



Flat bags



Side gusseted bags



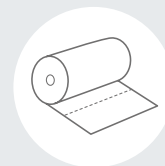
Shower caps



Flat films



Tube films



Film Cuttings



Half tube films

Other delivery forms on request.

## Technical Information BioCor® 300 RP

Parameter	300 RP LC II*	300 CF	Unit	Test method
Total thickness	Comparable to a 110 - 150 µm LDPE film	120	µm	DIN 53370
Dosage	1 m <sup>2</sup> protects up to 200 l volume			
Build-up phase	Approx. 1 hour (depending on temperature and packaging volume)			
Puncture resistance Dart – Drop	≥ 450	≥ 200	g	ASTM D 1709/A
Tensile and tear strength at least	≥ 25	≥ 20	MPa (N/mm <sup>2</sup> )	DIN 53455
Elongation strength at least	≥ 550	≥ 470	%	DIN 53455
Storage	3 years			

All specifications are subject to the usual tolerances according to DIN and ASTM.

\*LC = Loading Class, for more information see <https://metprogroup.com/en/produkte/biocor-vci-korrosionsschutz/biocor-vci-folien/>

Scope of protection: steel, cast iron\*, aluminium and aluminium alloys, zinc, lead\*, tin, magnesium, copper, brass, bronze, silver, nickel\*, titanium\* and chrome\*.

\*Protects only with direct contact

### Application

- Pack metal goods cleanly and dryly.
- Wear gloves to avoid transferring hand perspiration to the metal.
- Avoid condensation - when packing, the packed goods temperature should be = ambient temperature.
- Closed and tight packaging.
- Avoid direct contact between the metal packed goods and wood, paper or cardboard without VCI.

Please ask our technical advisors, who will be happy to assist you in creating a packaging guideline for your application



## Technical Product Data Sheet

### BioCor® 300 BF

BioCor® Food is approved for direct contact with food. Compared to the other BioCor® films, however, it has a lower level of protection.



### Delivery Options



Flat bags



Side gusseted bags



Grip seal/zipper bags



Shower caps



Y-hoods



Flat films



Tube films



Film Cuttings



Half tube films

Other delivery  
forms on  
request.



## Technical Information BioCor® 300 BF

Parameter	300 BF	Unit	Test method
Total thickness	80	µm	DIN 53370
Dosage	1 m <sup>2</sup> protects up to 200 l volume		
Build-up phase	Approx. 1 hour (depending on temperature and packaging volume)		
Puncture resistance Dart – Drop	≥ 180	g	ASTM D 1709/A
Tensile and tear strength at least	≥ 18	MPa (N/mm <sup>2</sup> )	DIN 53455
Elongation strength at least	≥ 280	%	DIN 53455
Storage	3 years		

All specifications are subject to the usual tolerances according to DIN and ASTM.

Scope of protection: steel, cast iron<sup>2)</sup>, aluminium and aluminium alloys, copper<sup>1)</sup>, zinc, brass<sup>1)</sup>, lead<sup>2)</sup>, tin, magnesium, bronze<sup>1)</sup>, nickel<sup>2)</sup> and chrome<sup>2)</sup>.

<sup>1)</sup>Protects only via the vapour phase.

<sup>2)</sup>Protects only in case of direct contact.

## Application

- Pack metal goods cleanly and dryly.
- Wear gloves to avoid transferring hand perspiration to the metal.
- Avoid condensation - when packing, the packed goods temperature should be = ambient temperature.
- Closed and tight packaging.
- Avoid direct contact between the metal packed goods and wood, paper or cardboard without VCI.

Please ask our technical advisors, who will be happy to assist you in creating a packaging guideline for your application



## Our Solutions for Greener Packaging

The thickness-reduced HP films and the RP films with recycled material reliably protect against corrosion even under heavy mechanical stress and at the same time ensures less packaging waste.

The R-Series films contain up to 75 % recycled material from commercial post consumer waste.

Both packaging solutions reduce CO<sub>2</sub> emissions and thus make an important contribution to our environmental protection!



### Advantages of HighPerformance Films Compared to a 100 µm CF (standard film)

#### BioCor® HP LC II

#### BioCor® RP LC II

0 %

Share of recycled material

30 %

~ 50 %

CO<sub>2</sub> savings

~ 50 %

50 %

Plastix Tax saving\*

100 %

\*Related to the UK tax rate

**Tip:** Use our BioCor® 300 RP film with recycled material for the packaging of your goods in countries with „plastic tax“ and thus reduce or avoid this tax.



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