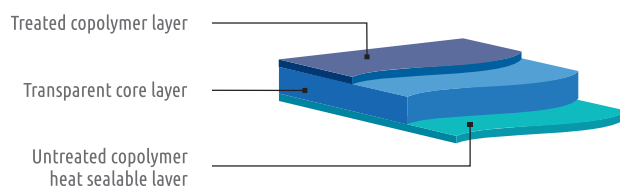


Description

Transparent heat sealable BOPP film for printing, lamination and packaging



Properties		Unit	Limit	Method	Value										
Thickness		μm	±5%	WATERFALL PRO	12	15	18	20	25	30	35	40	48		
Density		g/cm ³	±10%		0,91										
Weight m ²		g/m ²	±5%		10,92	13,65	16,38	18,20	22,75	27,30	31,85	36,40	43,68		
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	130		140								
	TD				230		250								
Elongation at break	MD	%	not more		220				200						
	TD			80				70							
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492	0,25										
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	5		4								
	TD				3		2								
Heat sealing strength at 130°C, 1 bar, 1 sec*	untreated side/ untreated side	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	2,0		2,2	2,3	2,5	2,8					
Heat sealing temperature*	untreated side/ untreated side	°C	-	WATERFALL PRO	105-140										
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,5		3,0			3,2					
Gloss	untreated side	%	not less	ASTM D2457 ISO 2813	85										
Surface tension**	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38										

MD – Machine Direction; TD – Transverse Direction

* the typical values are indicated, guaranteed only for untreated side

** with double-side treatment (if ordered), the activation of the second side (usually the inside of the roll) is not less than 36 mN/m

With double-side processing – strength and range of welding are not applicable

Kinetic coefficient of friction in 15 days from the date of production

Main characteristics

- low coefficient of friction
- good optical properties
- contains slip-antistatic and anti-block additives

Application

For packing

- different products: food industry, goods for household use, for industrial goods and others
- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) and cold (using cold glue) seal formation
- Flow-Pack
- self using in decorative packaging

For lamination

- with other films and materials
- with method of the solvent or nonsolvent (extrusion) lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint
- method of direct and reverse printing

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

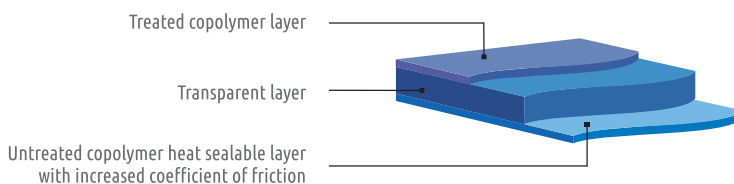
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Description

Transparent heat sealable BOPP film for printing, lamination and packaging with increased coefficient of friction



Properties		Unit	Limit	Method	Value									
Thickness		μm	±5%	WATERFALL PRO	12	15	18	20	25	30	35	40	48	
Density		g/cm ³	±10%		0,91									
Weight m ²		g/m ²	±5%		10,92	13,65	16,38	18,20	22,75	27,30	31,85	36,40	43,68	
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	130					140				
	TD				230					250				
Elongation at break	MD	%	not more		220					200				
	TD			80					70					
Kinetic coefficient of friction	untreated side/ untreated side	-	not less	ASTM D1894 ISO 8295 GOST 27492	0,45									
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	5					4				
	TD				3					2				
Heat sealing strength at 130°C, 1 bar, 1 sec*	untreated side/ untreated side	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	2,0		2,2	2,3	2,5	2,8				
Heat sealing temperature*	untreated side/ untreated side	°C	-	WATERFALL PRO	105-140									
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,5			3,0			3,2			
Gloss	untreated side	%	not less	ASTM D2457 ISO 2813	85									
Surface tension**	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38									

MD – Machine Direction; TD – Transverse Direction

* Typical values are indicated, guaranteed only for untreated layer

** with double-side treatment (if ordered), the activation of the second side (usually the inside of the roll) is not less than 36 mN/m

With double-side processing – strength and range of welding are not applicable

Kinetic coefficient of friction in 15 days from the date of production

Main characteristics

- stable high coefficient of friction
- good optical properties
- contains antistatic and anti-block additives

Application

For packing

- packaging of various products: food industry goods, household goods, industrial goods
- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealable) and cold (with the help of cold glue) seal formation
- in cases when it is necessary to reduce slip of the flexible package on BOPP film side
- Flow-Pack
- of multiple packs of packaged product with banding method
- in packs, which can stay in single group without sliding on each other

For lamination

- with other films and materials, for decreasing influence of slip additives migration on the BOPP film side, which leads to significant reduction of coefficient of friction. In this case high coefficient of friction compensates that.
- using solvent or non-solvent (extrusive) lamination method

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint
- with the method of direct and reverse printing

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

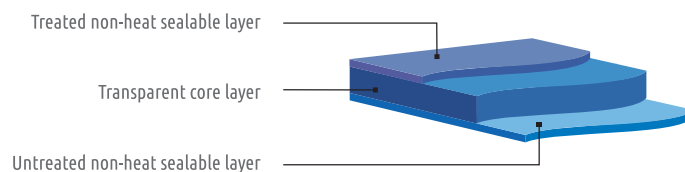
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Description

Transparent non-heat sealable BOPP film for scotch tape



Properties		Unit	Limit	Method	Value											
Thickness		μm	±5%	WATERFALL PRO	18	20	23	25	26	27	28	30	32	35	40	
Density		g/cm ³	±10%		0,91											
Weight m ²		g/m ²	±5%		16,38	18,20	20,90	22,80	23,70	24,57	25,50	27,30	29,10	31,90	36,40	
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	150						140					
	TD				250											
Elongation at break	MD	%	not more		200											
	TD				70											
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10		ASTM D1894 ISO 8295 GOST 27492	0,35										
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	4											
	TD				2											
Heat sealing strength at 130°C, 1 bar, 1 sec*	-	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	non-heat sealable											
Heat sealing temperature	-	°C	-	WATERFALL PRO	non-heat sealable											
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,0											
Gloss	treated side	%	not less	ASTM D2457 ISO 2813	85											
Surface tension	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38											

MD – Machine Direction; TD – Transverse Direction

Main characteristics

- good optical properties – transparency and gloss
- good mechanical properties
- low shrinkable for maintaining print sizes during glue drying

Application

- use for adhesive tapes production – the scotch with melt and waterborne glues
- self using in decorative package

For lamination

- with other films and materials (if necessary)
- with method of the solvent or nonsolvent (extrusion) lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

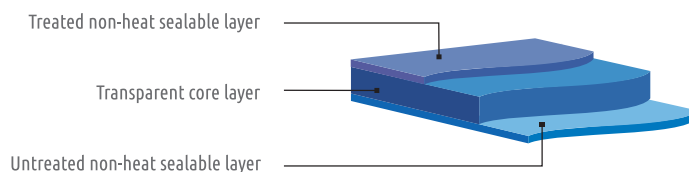
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Description

Transparent non-heat sealable BOPP film for printing and decorative package



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	WATERFALL PRO	20	25	30	35	40
Density		g/cm ³	±10%		0,91				
Weight m ²		g/m ²	±5%		18,20	22,80	27,30	31,90	36,40
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	140				
	TD				250				
Elongation at break	MD	%	not more		200				
	TD			70					
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492	0,4				
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	4				
	TD				2				
Heat sealing strength at 130°C, 1 bar, 1 sec	-	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	non-heat sealable				
Heat sealing temperature	-	°C	-	WATERFALL PRO	non-heat sealable				
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,0				
Gloss	treated side	%	not less	ASTM D2457 ISO 2813	85				
Surface tension	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38				

MD – Machine Direction; TD – Transverse Direction

Main characteristics

- high coefficient of friction
- high transparency and gloss
- used as a face film of a package with high gloss

Application

- for excepting heat sealability on the package front side
- for manual and machine product wrapping (flowers, gifts, office, textile products etc.)

For packing

- for excepting heat sealability

For lamination

- with other films and materials (if necessary)
- with method of the solvent or nonsolvent (extrusion) lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

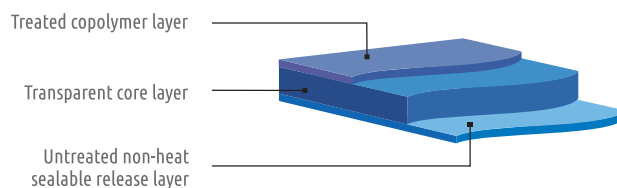
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Description

Transparent non-heat sealable BOPP film with release effect for flexible packaging with glue border of cold adhesion



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	WATERFALL PRO	15	20	25	30	35
Density		g/cm ³	±10%		0,91				
Weight m ²		g/m ²	±5%		13,65	18,20	22,75	27,30	31,85
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	150		140		
	TD				250				
Elongation at break	MD	%	not more		200				
	TD			70					
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492	0,25				
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	5		4		
	TD				2		2		
Heat sealing strength at 130°C, 1 bar, 1 sec	-	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	non-heat sealable				
Heat sealing temperature	-	°C	-	WATERFALL PRO	non-heat sealable				
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,0				
Gloss	treated side	%	not less	ASTM D2457 ISO 2813	85				
Surface tension	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38				

MD – Machine Direction; TD – Transverse Direction
Kinetic coefficient of friction in 15 days from the date of production

Main characteristics

- high release characteristics
- low coefficient of friction
- high transparent

Application

- for reopening/reclosing of package
- on the HFFS packaging machines
- with cold (using cold glue) seal formation
- with cold glue for one-and reopening
- [For lamination](#)
- with other films and materials
- with method of the solvent or nonsolvent (extrusion) lamination
- [For printing](#)
- high-quality rotogravure and flexographic print
- with the use of solvent paint

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

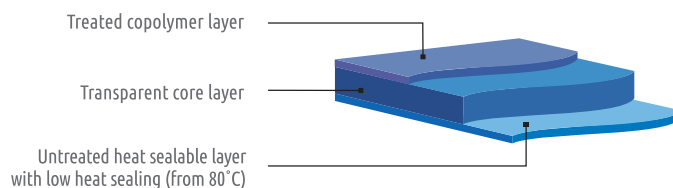
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Description

Transparent heat sealable BOPP film with low heat sealing properties for printing, lamination and packaging



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	WATERFALL PRO	20	25	30	35	40
Density		g/cm ³	±10%		0,91				
Weight m ²		g/m ²	±5%		18,20	22,80	27,30	31,90	36,40
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	130				
	TD				250				
Elongation at break	MD	%	not more		200				
	TD			70					
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492	0,25				
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	4				
	TD				2				
Heat sealing strength at 130°C, 1 bar, 1 sec*	untreated side/ untreated side	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	2,3	2,5	2,8		
Heat sealing temperature*	untreated side/ untreated side	°C	-	WATERFALL PRO	80-140				
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	3,0				
Gloss	treated side	%	not less	ASTM D2457 ISO 2813	85				
Surface tension**	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38				

MD – Machine Direction; TD – Transverse Direction

* the typical values are indicated, guaranteed only for untreated side

** with double-side treatment (if ordered), the activation of the second side (usually the inside of the roll) is not less than 36 mN/m

With double-side processing – strength and range of welding are not applicable

Kinetic coefficient of friction in 15 days from the date of production

Main characteristics

- low heat sealing temperature
- low coefficient of friction
- good optical properties

Application

- to reduce the temperature of heat sealing
- to increase the speed of heat sealing

For packing

- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) seal formed at lower heat sealing temperatures (from 80°C)
- Flow-Pack
- self using in decorative packaging

For lamination

- with other films and materials
- with method of the solvent or nonsolvent (extrusion) lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint
- method of direct and reverse printing

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

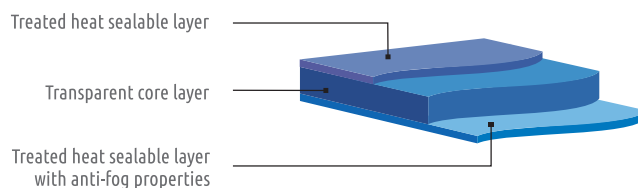
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Description

Transparent heat sealable anti-fog BOPP film for printing and packaging



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	WATERFALL PRO	20	25	30	35	40
Density		g/cm ³	±10%		0,91				
Weight m ²		g/m ²	±5%		18,20	22,80	27,30	31,90	36,40
Tensile strength	MD	N/mm ² (MPa)	not less	ASTM D882 ISO 527 GOST 14236	130		140		
	TD				230		250		
Elongation at break	MD	%	not more		220		200		
	TD			80		70			
Kinetic coefficient of friction	non-functional side/ non-functional side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492	0,25				
	functional side/ functional side								
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	5		4		
	TD				2		2		
Heat sealing strength at 130°C, 1 bar, 1 sec	functional side/ non-functional side	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	2,3		2,8		
Heat sealing temperature	functional side/ non-functional side	°C	-	WATERFALL PRO	120-140				
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	3,0		3,2		
Gloss	non-functional side	%	not less	ASTM D2457 ISO 2813	85				
Surface tension	non-functional side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38				
Anti-fog properties	functional side	point	not less	WATERFALL PRO	4				

MD – Machine Direction; TD – Transverse Direction
Functional side – side with anti-fog effect

Main characteristics

- good anti-fog properties from + 4°C and above
- low coefficient of friction
- one side has anti-fog properties
- the other side is for printing

Application

- for packaging products which require no fogging, contributing to the preservation of the basic properties of perishable products: fresh vegetables, salads, fruits, hot food, semi-finished products of flour products (dough), etc.

For packing

- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) seal formation
- Flow-Pack

For lamination

- with other films and materials (the change in anti-fog properties after lamination was not studied)
- with method of the solvent lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint
- method of direct printing

Storage

- Films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package.
- The film should be kept in workplace not less than 48 hours before being used.
- Guaranteed storage period – 6 months from production date.

Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

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