

SECTION GUIDE

MOULD RELEASES (NON-LIQUID)

Name	Carrier type	Adhesive type	Maximum use temperature	Colour	Total thickness	
Filmcote® 1524	-	-	190°C	Light grey (toolside) / dark grey (part side)	-	1
Toolwright 3	Extruded fluoropolymer	Silicone	260°C	Light orange	75 µm	2
Toolwright 5	Extruded fluoropolymer	Silicone	260°C	Light orange	125 µm	3
TFG 075 AH	PTFE Coated Glass Fabric	Silicone	260°C	Brown	125 µm	4
TFG 125 AH	PTFE Coated Glass Fabric	Silicone	260°C	Brown	175 µm	5
TFG 250 AH	PTFE Coated Glass Fabric	Silicone	260°C	Brown	300 µm	6
Tooltec® A005	PTFE / Glass	Silicone	260°C	Light brown	125 µm	7
Tooltec® A007	PTFE / Glass	Silicone	260°C	Light brown	175 µm	8
Tooltec® A012	PTFE / Glass	Silicone	260°C	Light brown	304 µm	9
Tooltec® CA5	PTFE	Acrylic	204°C	Light brown	163 µm	10
Tooltec® CS5	PTFE	Silicone	260°C	Light brown	165 µm	11

Data Sheet

FILMCOTE® 1524

Release film preventing the use of release liquids

■ DESCRIPTION

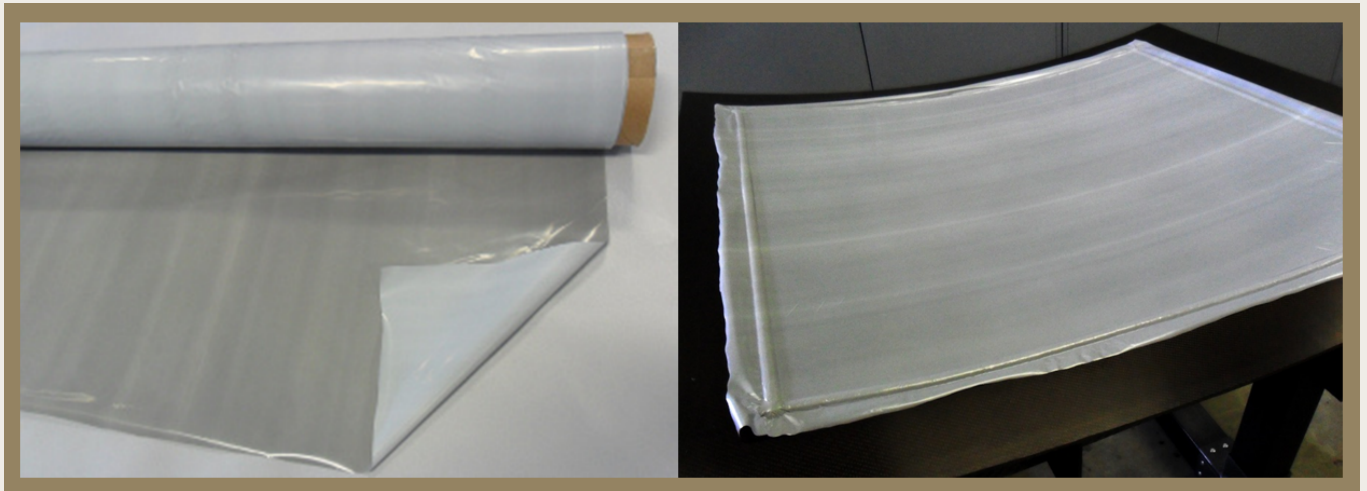
Filmcote® 1524 is an engineered film developed as a replacement for release liquids on the surface of mould tools. Filmcote® 1524 remains on the part surface after demould providing protection from damage or contamination during subsequent process.

■ BENEFITS

- No contamination of parts by release agents transfer.
- Excellent release reduces rework or cleaning of tooling.
- Film protect parts during trim and drill operation.

■ TECHNICAL DATA

Colour	Light grey (toolside) / dark grey (part side)
Maximum use temperature	190°C
Film thickness	38 µm
Elongation at break	400 %
Tensile strength	37.9 MPa
Shelf life	Unlimited when stored in original packaging at 22°C



■ NOTES

- The film is supplied with two different surfaces, one side is light grey and the other side is dark grey. Care must be taken to apply the dark grey surface in contact with the prepreg and the light grey surface against the tool.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

Last updated : 2018-11-16

Catalogue position : Mould Releases (Non-Liquid)

Data Sheet

TOOLWRIGHT 3

Fluoropolymer release film with adhesive coating

DESCRIPTION

Toolwright 3 is an extruded fluoropolymer film coated with silicone pressure sensitive adhesive. Toolwright 3 has a thinner film than Toolwright 5 version and can be more easily applied over complex contour surfaces. Toolwright 3 has high elongation, good tear strength, high temperature resistance and excellent clean up after removal.

BENEFITS

- Extend the life of worn tools avoiding cost of new tools.
- Tougher film is more tear resistant, easier and faster to apply.
- Improved part surface quality.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	Extruded fluoropolymer
Adhesive type	Silicone
Colour	Light orange
Total thickness	75 µm
Film thickness	50 µm
Adhesive thickness	25 µm
Elongation at break	350 %
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZE

Width	Length
127 cm	16.5 m

- Other widths available, please contact Tygavac for more information.



NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.
- Watch a demo video of Toolwright 3 & 5 in the "Media Center" on our website.

Last updated : 2018-09-25

Catalogue position : Mould Releases (Non-Liquid)

Data Sheet

TOOLWRIGHT 5

Extruded fluoropolymer pressure sensitive film for semi-permanent mould release applications

DESCRIPTION

Toolwright 5 is an extruded fluoropolymer film coated with silicone pressure sensitive adhesive. The orange colour is highly visible on most substrates in addition to offering high elongation and tensile strength.

BENEFITS

- Provides excellent release from all common resin systems for multiple releases.
- Good adhesion to metal, composite, tooling block and rubber tooling.
- High elongation allows for easier covering of complex contour surfaces.
- Tougher film is more tear resistant and so it's easier to stretch over complex shapes without damage.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	Extruded fluoropolymer
Adhesive type	Silicone
Colour	Light orange
Total thickness	125 µm
Film thickness	100 µm
Adhesive thickness	25 µm
Elongation at break	350 %
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZE

Width	Length
117 cm	16.5 m

- Other widths available, please contact Tygavac for more information.



NOTES

- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.
- Watch a demo video of Toolwright 3 & 5 in the "Media Center" on our website.

Data Sheet

TFG 075 AH

PTFE coated glass fabric with pressure sensitive adhesive

■ DESCRIPTION

TFG 075 AH is a premium quality PTFE coated glass fabric tape with medium gloss coating suitable for most standard moulding applications.

TFG S 075 AH is a general purpose PTFE coated glass fabric tape with medium gloss coating suitable for consideration when cost is a prime factor.

TFG 075/1 AH is a super smooth, premium quality PTFE coated glass fabric tape with high gloss coating suitable for moulding applications where a high quality of surface finish is required.

■ BENEFITS

- Can be used on the tool face to give a permanent release surface eliminating the need to apply release agents.
- Low coefficient of friction allows resin to flow easily against the surface.
- Mould tools with imperfections/ pinholes can be covered to produce a suitable tooling surface.

■ TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE Coated Glass Fabric
Adhesive type	Silicone
Colour	Brown
Total thickness	125 µm
Fabric thickness	75 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

■ SIZES

- Widths are available from 10mm to 1000mm, contact Tygavac for more information.

■ NOTES

- Colour may vary slightly, however this does not indicate any variation in performance.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

Data Sheet

TFG 125 AH

PTFE coated glass fabric with pressure sensitive adhesive

■ DESCRIPTION

TFG 125 AH is a premium quality PTFE coated glass fabric tape with medium gloss coating suitable for most standard moulding applications.

TFG S 125 AH is a general purpose PTFE coated glass fabric tape with medium gloss coating suitable for consideration when cost is a prime factor.

TFG 125/1 AH is a super smooth, premium quality PTFE coated glass fabric tape with high gloss coating suitable for moulding applications where a high quality of surface finish is required.

TFG 125/3 AH is an anti-static quality PTFE coated glass tape with medium gloss coating and will dissipate static electricity.

■ BENEFITS

- Can be used on the tool face to give a permanent release surface eliminating the need to apply release agents.
- Low coefficient of friction allows resin to flow easily against the surface.
- Mould tools with imperfections/ pinholes can be covered to produce a suitable tooling surface.

■ TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE Coated Glass Fabric
Adhesive type	Silicone
Colour	Brown
Total thickness	175 µm
Fabric thickness	125 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

■ SIZES

- Widths are available from 10mm to 1000mm, contact Tygavac for more information.

■ NOTES

- Colour may vary slightly, however this does not indicate any variation in performance.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

Data Sheet

TFG 250 AH

PTFE coated glass fabric with pressure sensitive adhesive

■ DESCRIPTION

TFG 250 AH is a premium quality PTFE coated glass fabric tape with medium gloss coating suitable for most standard moulding applications.

TFG S 250 AH is a general purpose PTFE coated glass fabric tape with medium gloss coating suitable for consideration when cost is a prime factor.

TFG 250/1 AH is a super smooth, premium quality PTFE coated glass fabric tape with high gloss coating suitable for moulding applications where a high quality of surface finish is required.

TFG 250/3 AH is an anti-static quality PTFE coated glass tape with medium gloss coating and will dissipate static electricity.

■ BENEFITS

- Can be used on the tool face to give a permanent release surface eliminating the need to apply release agents.
- Low coefficient of friction allows resin to flow easily against the surface.
- Mould tools with imperfections/ pinholes can be covered to produce a suitable tooling surface.

■ TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE Coated Glass Fabric
Adhesive type	Silicone
Colour	Brown
Total thickness	300 µm
Fabric thickness	250 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

■ SIZES

- Widths are available from 10 mm to 1000 mm, contact Tygavac for more information.

■ NOTES

- Colour may vary slightly, however this does not indicate any variation in performance.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

Data Sheet

TOOLTEC® A005

Reinforced PTFE coated fibreglass with silicone adhesive

DESCRIPTION

Tooltec® A005 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and a reconditioned surface. It can be used on all types of moulds, press platens, caul sheets or any surface that comes in contact with resins or adhesives. Release agents are not required on the mould surface thereby reducing cost and parts contamination. Tooltec® A005 is a reinforced mould surface reconditioning tape providing a semi-permanent release for flat tools. This product comes standard with a silicone pressure adhesive, but can also be supplied with an acrylic adhesive by special order.

BENEFITS

- Provides semi-permanent release saving time spent cleaning tooling and reapplying release agents.
- Tools can be used to recondition worn or damaged tools for extended service, avoiding cost of remanufacture.
- Improve tool surface finish and aid resin flow for better part surface finish and reduced hand finishing.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE/ Glass
Adhesive type	Silicone
Colour	Light brown
Total thickness	125 µm
Film thickness	75 µm
Adhesive thickness	50 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZES

Width	Length
2.54 cm	33 m
5.08 cm	33 m
91 cm	16.5 m
122 cm	16.5 m

- Other sizes available on special order.



NOTES

- Tooltec® A005 should be applied by carefully lifting the edge of the backing, then applying the adhesive side to the mould surface. The remainder of backing should then be carefully removed while pressing the Tooltec® A005 onto the mould surface with an Airsweep or other straight edge. A vacuum bag can then be applied to remove any residual air. A cure cycle under vacuum will provide the best results.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

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Catalogue position : **Mould Releases (Non-Liquid)**

Data Sheet

TOOLTEC® A007

Reinforced PTFE coated fibreglass with silicone adhesive

DESCRIPTION

Tooltec® A007 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and a reconditioned surface. It can be used on all types of moulds, press platens, caul sheets or any surface that comes in contact with resins or adhesives. Release agents are not required on the mould surface thereby reducing cost and parts contamination. Tooltec® A007 is a reinforced mould surface reconditioning tape providing a semi-permanent release for flat tools. This product comes standard with a silicone pressure adhesive, but can also be supplied with an acrylic adhesive by special order.

BENEFITS

- Provides semi-permanent release saving time spent cleaning tooling and reapplying release agents.
- Tools can be used to recondition worn or damaged tools for extended service, avoiding cost of remanufacture.
- Improve tool surface finish and aid resin flow for better part surface finish and reduced hand finishing.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE/ Glass
Adhesive type	Silicone
Colour	Light brown
Total thickness	175 µm
Film thickness	125 µm
Adhesive thickness	50 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZES

Width	Length
2.54 cm	33 m
91 cm	16.5 m
122 cm	16.5 m

- Other sizes available on special order.



NOTES

- Tooltec® A007 should be applied by carefully lifting the edge of the backing, then applying the adhesive side to the mould surface. The remainder of backing should then be carefully removed while pressing the Tooltec® A007 onto the mould surface with an Airsweep or other straight edge. A vacuum bag can then be applied to remove any residual air. A cure cycle under vacuum will provide the best results.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

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Catalogue position : **Mould Releases (Non-Liquid)**

Data Sheet

TOOLTEC® A012

Reinforced PTFE coated fibreglass with silicone adhesive

DESCRIPTION

Tooltec® A012 pressure sensitive tape is designed to adhere to tool surfaces providing semi-permanent release and a reconditioned surface. It can be used on all types of moulds, press platens, caul sheets or any surface that comes in contact with resins or adhesives. Release agents are not required on the mould surface thereby reducing cost and parts contamination. This product comes standard with a silicone pressure adhesive, but can also be supplied with an acrylic adhesive by special order.

BENEFITS

- Provides semi-permanent release saving time spent cleaning tooling and reapplying release agents.
- Can be used to recondition worn or damaged tools for extended service, avoiding cost of remanufacture.
- Tooltec® A012 is a thicker more hard wearing version for longer life in more demanding applications.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE/ Glass
Adhesive type	Silicone
Colour	Light brown
Total thickness	304 µm
Film thickness	254 µm
Adhesive thickness	50 µm
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZE

Width	Length
91 cm	16.5 m

- Other sizes available on special order.



NOTES

- Tooltec® A012 should be applied by carefully lifting the edge of the backing, then applying the adhesive side to the mould surface. The remainder of backing should then be carefully removed while pressing the Tooltec® A012 onto the mould surface with an Airsweep or other straight edge. A vacuum bag can then be applied to remove any residual air. A cure cycle under vacuum will provide the best results.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

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Catalogue position : Mould Releases (Non-Liquid)

Data Sheet

TOOLTEC® CA5

High elongation PTFE film coated with acrylic adhesive

DESCRIPTION

Tooltec® CA5 is a PTFE film coated with a high temperature non silicone pressure sensitive adhesive. It is a non-reinforced tape allowing conformance to complex contours. Tooltec® CA5 can be used to seal masters and leaky tool surfaces while providing semi-permanent and contamination free part release.

BENEFITS

- Provides semi-permanent release saving time spent cleaning tooling and reapplying release agents.
- Improve tool surface finish and aid resin flow for better part surface finish and reduced hand finishing.
- Acrylic adhesive tape can be used where silicone adhesives are prohibited to reduce contamination risk.

TECHNICAL DATA

Maximum use temperature	204°C
Carrier type	PTFE
Adhesive type	Acrylic
Colour	Light brown
Total thickness	163 µm
Film thickness	125 µm
Adhesive thickness	38 µm
Elongation at break	300 %
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZE

Width	Length
91 cm	16.5 m

- Other sizes available on special order.



NOTES

- Tooltec® CA5 should be applied by carefully lifting the edge of the backing, then applying the adhesive side to the mould surface. The remainder of backing should then be carefully removed while pressing the Tooltec® CA5 onto the mould surface with an Airsweep or other straight edge. A vacuum bag can then be applied to remove any residual air. A cure cycle under vacuum will provide the best results.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

Last updated : 2018-09-25

Catalogue position : **Mould Releases (Non-Liquid)**

Data Sheet

TOOLTEC® CS5

High elongation PTFE film coated with silicone adhesive

DESCRIPTION

Tooltec® CS5 is a PTFE film coated with a high temperature silicone pressure sensitive adhesive. It can be used to seal masters and leaky tool surfaces while providing semi-permanent and contamination free part release. Tooltec® CS5 is a non-reinforced mould surface reconditioning tape allowing conformance to complex contours and providing a semi-permanent release for contoured shapes.

BENEFITS

- Provides semi-permanent release saving time spent cleaning tooling and reapplying release agents.
- Good elongation, so complex tools can be reconditioned and master models finished for moulding.
- Improve tool surface finish and aid resin flow for better part surface finish and reduced hand finishing.

TECHNICAL DATA

Maximum use temperature	260°C
Carrier type	PTFE
Adhesive type	Silicone
Colour	Light brown
Total thickness	165 µm
Film thickness	127 µm
Adhesive thickness	38 µm
Elongation at break	300 %
Shelf life	18 months from date of shipment when stored in original packaging at 22°C

COMMONLY USED SIZES

Width	Length
91 cm	16.5 m
122 cm	16.5 m

- Other sizes available on special order.



NOTES

- Tooltec® CS5 should be applied by carefully lifting the edge of the backing, then applying the adhesive side to the mould surface. The remainder of backing should then be carefully removed while pressing the Tooltec® CS5 onto the mould surface with an Airsweep or other straight edge. A vacuum bag can then be applied to remove any residual air. A cure cycle under vacuum will provide the best results.
- The maximum use temperature is dependent upon the duration at maximum temperature and is process specific, Tygavac recommends testing prior to use.

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Catalogue position : **Mould Releases (Non-Liquid)**