

## IDENTIFICATION



**GREMARK® GMEC2**

**GREMARK® GMEC3**

**GREMARK® GMG2**

**GREMARK® GMG3**

**GREMARK® GMDR**

**GREMARK® PG61**

**GREMARK® PG61 (3X)**

**GREMARK® PGDR 135**

**GREMARK® PG55Z**

**GREMARK® Ribbon**

**GREMARK® A4+M**

**GREMARK® XD4M**



## Features/Applications

GREMARK® GMEC2 is a printable, flame retardant polyolefin heat shrink tubing in a ladder format for cable identification systems.

GREMARK® GMEC2 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies.

## Various

Standard colours: White, Yellow. Other colours available on request.

For heat shrink tubing characteristics please refer to GREMTUBE® G61, which is UL recognized.

## Preferred printer/ribbon combination

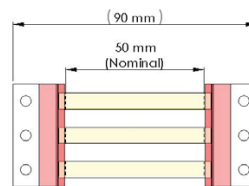
To be used with the Gremtek printing system

- Thermal transfer printer type A4+M (one side) or XD4M (double side)
- Thermal transfer ribbon type GR-TT6100

## Dimensions



Reference	As supplied (mm)		After recovery (mm)		Packaging (Sleeve/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)	
GREMARK® GMEC2					
0240-25-0-*	2,40	1,20		0,36	2500
0320-25-0-*	3,20	1,60		0,37	2500
0480-20-0-*	4,80	2,40		0,37	2000
0640-20-0-*	6,40	3,20		0,38	2000
0950-20-0-*	9,50	4,80		0,39	2000
1270-10-0-*	12,70	6,40		0,39	1000
1910-10-0-*	19,10	9,50		0,40	1000
2540-5.0-0-*	25,40	12,70		0,41	500
3800-5.0-0-*	38,10	19,00		0,42	500
5080-2.5-0-*	50,80	25,40		0,43	250
7620-2.5-0-*	76,20	38,10		0,45	250

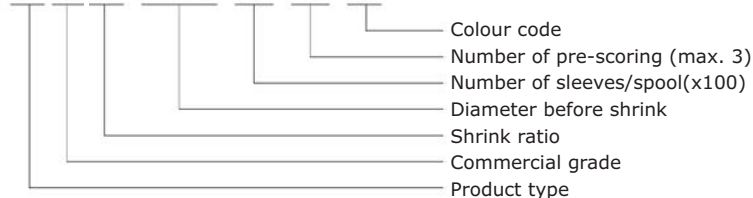


## Options

Options	0 (by default)	1	2	3
Pre-scoring	0 (by default)	1	2	3
Printable Area Size	1 markers x50mm	2 markers x25mm	3 markers x16mm	4 markers x12.5mm
Colour code	4		9	
Standard colour	Yellow		white	

## Part numbering system

G M E C 2 - 0480 - 20 - 0 - 4



Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® GMEC3 is a printable, flame retardant polyolefin heat shrink tubing in a ladder format for cable identification systems. GREMARK® GMEC3 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies.

### Various

Standard colours: White, Yellow. Other colours available on request. For heat shrink tubing characteristics please refer to GREMTUBE® G61 3X, which is UL recognized.

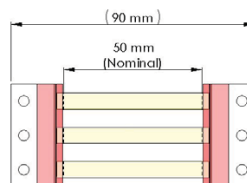
### Preferred printer/ribbon combination

- To be used with the Gremtek printing system
- Thermal transfert printer type A4+M (one side) or XD4M (double side)
- Thermal transfert ribbon type GR-TT6100

### Dimensions



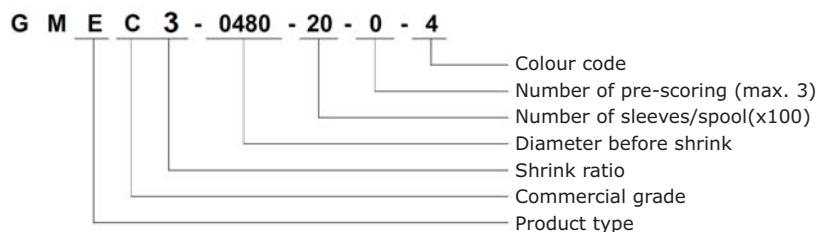
Reference <i>GREMARK® GMEC3</i>	As supplied (mm)		After recovery (mm)		Packaging (Sleeve/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)	
0240-25-0-*	2,40	0,80	0,56	2500	
0320-25-0-*	3,20	1,00	0,56	2500	
0480-20-0-*	4,80	1,60	0,57	2000	
0640-20-0-*	6,40	2,40	0,58	2000	
0950-20-0-*	9,50	3,20	0,60	2000	
1270-10-0-*	12,70	4,80	0,61	1000	
1910-10-0-*	19,10	6,40	0,63	1000	
2540-5.0-0-*	25,40	8,50	0,64	500	
3800-5.0-0-*	38,10	12,70	0,66	500	
5080-2.5-0-*	50,80	17,00	0,68	250	
7620-2.5-0-*	76,20	25,40	0,71	250	



### Options

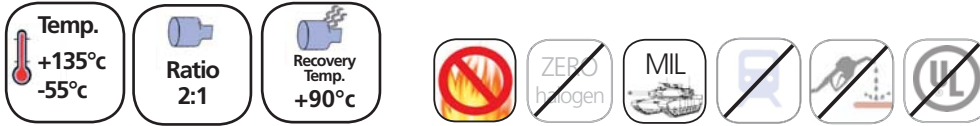
Pre-scoring	0 (by default)	1	2	3
Printable Area Size	1 markers x50mm	2 markers x25mm	3 markers x16mm	4 markers x12.5mm
Colour code	4		9	
Standard colour	Yellow		white	

### Part numbering system



Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





**Features/Applications**

GREMARK® GMG2 is a printable, flame retardant polyolefin heat shrink tubing in a ladder format for cable identification systems.

GREMARK® GMG2 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies for railway applications.

**Various**

SNCF NF F00-608 MRT.A approved and meets MIL-I-23053.

Standard colours: White, Yellow. Other colours available on request.

For heat shrink tubing characteristics please refer to GREMTUBE® G61, which is UL recognized.

**Preferred printer/ribbon combination**

To be used with the Gremtek printing system

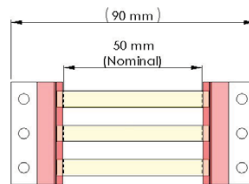
- Thermal transfer printer type A4+M (one side) or XD4M (double side)

- Thermal transfer ribbon type GR-TT6900

**Dimensions**



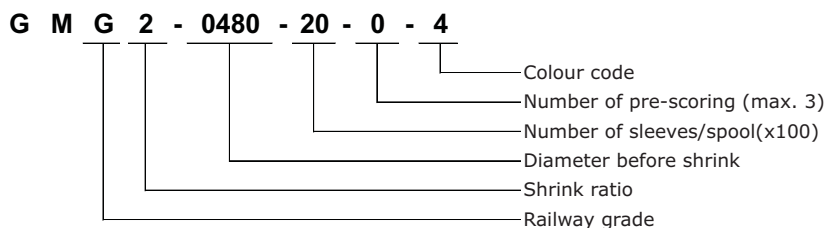
Reference <i>GREMARK® GMG2</i>	As supplied (mm)		After recovery (mm)		Packaging (Sleeve/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)	
0240-25-0-*	2,40	1,20	1,20	0,36	2500
0320-25-0-*	3,20	1,60	1,60	0,37	2500
0480-20-0-*	4,80	2,40	2,40	0,37	2000
0640-20-0-*	6,40	3,20	3,20	0,38	2000
0950-20-0-*	9,50	4,80	4,80	0,39	2000
1270-10-0-*	12,70	6,40	6,40	0,39	1000
1910-10-0-*	19,10	9,50	9,50	0,40	1000
2540-5.0-0-*	25,40	12,70	12,70	0,41	500



**Options**

Pre-scoring	0 (by default)	1	2	3
Printable Area Size	1 markers x50mm	2 markers x25mm	3 markers x16mm	4 markers x12.5mm
Colour code	4		9	
Standard colour	Yellow		white	

**Part numbering system**



Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® GMG3 is a printable, flame retardant polyolefin heat shrink tubing in a ladder format for cable identification systems. GREMARK® GMG3 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies for railway applications.

### Various

SNCF NF F00-608 MRT.A approved and meets MIL-I-23053. Standard colours: White, Yellow. Other colours available on request. For heat shrink tubing characteristics please refer to GREMTUBE® G61 3X, which is UL recognized.

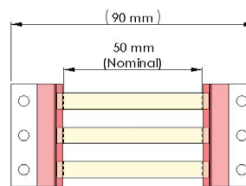
### Preferred printer/ribbon combination

- To be used with the Gremtek printing system
- Thermal transfert printer type A4+M (one side) or XD4M (double side)
- Thermal transfert ribbon type GR-TT6900

### Dimensions



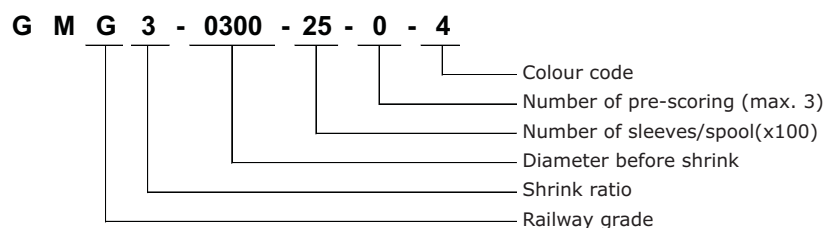
Reference <i>GREMARK® GMG3</i>	As supplied (mm)		After recovery (mm)		Packaging (Sleeve/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)	
0240-25-0-*	2,40	0,80	0,56	2500	
0320-25-0-*	3,20	1,00	0,56	2500	
0480-20-0-*	4,80	1,60	0,57	2000	
0640-20-0-*	6,40	2,40	0,58	2000	
0950-20-0-*	9,50	3,20	0,60	2000	
1270-10-0-*	12,70	4,80	0,61	1000	
1910-10-0-*	19,10	6,40	0,63	1000	
2540-5.0-0-*	25,40	8,50	0,64	500	
3800-5.0-0-*	38,10	12,70	0,66	500	
5080-2.5-0-*	50,80	17,00	0,68	250	
7620-2.5-0-*	76,20	25,40	0,71	250	



### Options

Pre-scoring	0 (by default)	1	2	3
Printable Area Size	1 markers x50mm	2 markers x25mm	3 markers x16mm	4 markers x12.5mm
Colour code	4		9	
Standard colour	Yellow		white	

### Part numbering system



Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® GMDR is a printable, flame retardant, diesel resistant polyolefin heat shrink tubing in a ladder format for cable identification systems.

GREMARK® GMDR is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies for railway applications.

### Various

SNCF NF F00-608, MRT.H approved.

Standard colours: White, Yellow. Other colours available on request.

For heat shrink tubing characteristics please refer to GREMTUBE® PGDR.

### Preferred printer/ribbon combination

To be used with the Gremtek printing system

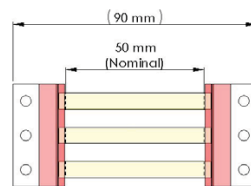
- Thermal transfer printer type A4+M (one side) or XD4M (double side)

- Thermal transfer ribbon type GR-TT6900

### Dimensions



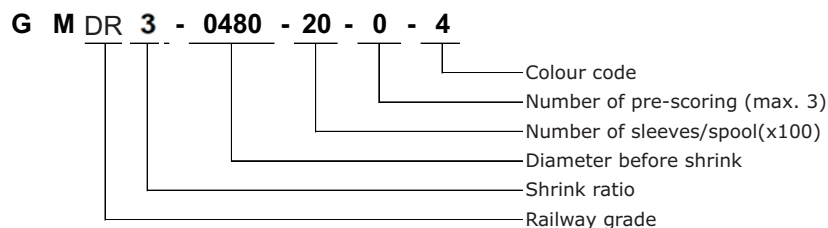
Reference <i>GREMARK® GMDR</i>	As supplied (mm)		After recovery (mm)		Packaging (Sleeve/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)	
0240-25-0-*	2,4	0,80	0,36	2500	
0320-25-0-*	3,2	1,10	0,37	2500	
0480-20-0-*	4,8	1,60	0,37	2000	
0640-20-0-*	6,4	2,10	0,38	2000	
0950-20-0-*	9,5	3,20	0,39	2000	
1270-10-0-*	12,7	6,40	0,39	1000	
1910-10-0-*	19,1	9,50	0,40	1000	
2540-5.0-0-*	25,4	12,7	0,41	500	
3800-5.0-0-*	38,1	19,1	0,42	500	



### Options

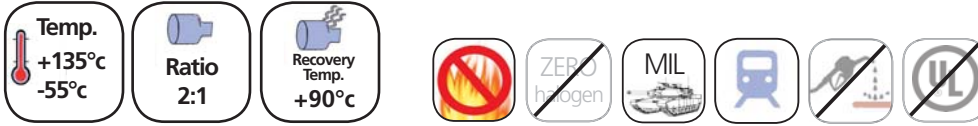
Pre-scoring	0 (by default)	1	2	3
Printable Area Size	1 markers x50mm	2 markers x25mm	3 markers x16mm	4 markers x12.5mm
Colour code	4		9	
Standard colour	Yellow		white	

### Part numbering system



Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® PG61 is a flat printable, flame retardant, polyolefin heat shrink tubing in a spool, for cable identification systems.

GREMARK® PG61 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies, for commercial and railway applications.

### Various

Standard colours: White, Yellow. Other colours available on request.

### Specifications

SNCF NF F00-608 MRT.A approved.

Meets MIL-I-23053.

### Preferred printer/ribbon combination

For heat shrink characteristics please refer to GREMTUBE® G61

To be used with the Gremtek printing system

- Thermal transfert printer type A4+M (one side) or XD4M (double side)
- Thermal transfert ribbon type GR-TT6100

### Dimensions



Reference <i>GREMARK® PG61</i>	As supplied (mm)	After recovery (mm)		Flat width approx. (mm)	Standard Length (m/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)		
120	1,20	0,60	0,33	2,50	100
160	1,60	0,80	0,36	3,00	100
240	2,40	1,20	0,43	4,50	100
320	3,20	1,60	0,43	6,00	100
480	4,80	2,40	0,43	8,50	100
640	6,40	3,20	0,56	11,00	50
950	9,50	4,80	0,56	16,00	50
1270	12,70	6,40	0,56	21,00	50
1910	19,10	9,50	0,69	31,00	50
2540	25,40	12,70	0,76	41,00	30

• Spools as standard, cut pieces available on request

Property	Values	Test Methods
<b>Physical</b>		
Working temperature	-55°C to +135°C	-
Longitudinal change	0 / -10 %	-
Density @ 23°C	≤ 1,40g/cm <sup>3</sup>	ASTM D 792
Tensile strength	Unaged	≥ 1,1 kgf/mm <sup>2</sup> ASTM D 638
Elongation	Unaged	≥ 200% MIL-I-23053
Tensile strength	Aged (168h @ 175°C)	≥ 0,8 kgf/mm <sup>2</sup> ASTM D 638
Elongation	Aged (168h @ 175°C)	≥ 100% MIL-I-23053
Heat shock (4h @ 250°C)	Pass	MIL-I-23053
Low temperature flexibility (4h @ -55°C)	No crack	MIL-I-23053
Secant modulus	≤ 173 MPa	ASTM D 882
<b>Electrical</b>		
Dielectric strength	≥ 19,7 kV/mm	ASTM D 2671
Volume resistivity	≥ 1x10 <sup>14</sup> Ω-cm	ASTM D 876
<b>Chemical</b>		
Fluid resistance (24h @ 24°C)	Tensile strength	≥ 0,7 kgf/mm <sup>2</sup> MIL-I-23053
	Dielectric strength	≥ 15,8 kV/mm
Corrosion (16h @ 175°C)	Copper	No corrosion MIL-I-23053
	Copper mirror	No corrosion
Flammability	Pass	UL 224
Fungus resistance	No growth	ASTM G 21

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® PG61 3X is a flat printable, flame retardant, polyolefin heat shrink tubing in a spool, for cable identification systems.

GREMARK® PG61 3X is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies, for commercial and railway applications.

### Various

Standard colours: White, Yellow. Other colours available on request.

### Specifications

SNCF NF F00-608 MRT.A approved.

Meets MIL-I-23053.

### Preferred printer/ribbon combination

For heat shrink characteristics please refer to GREMTUBE® G61 3X

To be used with the Gremtek printing system

- Thermal transfer printer type A4+M (one side) or XD4M (double side)
- Thermal transfer ribbon type GR-TT6100

### Dimensions



Reference <i>GREMARK® PG61 3X</i>	As supplied (mm)	After recovery (mm)		Flat width approx. (mm)	Standard Length (m/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)		
1,5/0,5	1,50	0,50	0,40	3,00	100
3/1	3,00	1,00	0,50	5,50	100
4,5/1,5	4,50	1,50	0,54	8,00	100
6/2	6,00	2,00	0,59	10,50	50
9/3	9,00	3,00	0,68	15,00	50
12/4	12,00	4,00	0,68	19,50	50
18/6	18,00	6,00	0,77	29,50	50
24/8	24,00	8,00	0,90	39,00	30

• Spools as standard, cut pieces available on request

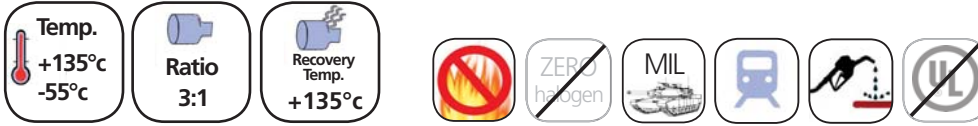
### Property

Property	Values	Test Methods	
Working temperature	-55°C to +135°C	-	
Longitudinal change	0 / -10 %	-	
Density @ 23°C	≤ 1,40g/cm <sup>3</sup>	ASTM D 792	
<b>Physical</b>	Tensile strength	Unaged	≥ 1,1 kgf/mm <sup>2</sup> ASTM D 638
	Elongation	Unaged	≥ 200% MIL-I-23053
	Tensile strength	Aged (168h @ 175°C)	≥ 0,8 kgf/mm <sup>2</sup> ASTM D 638
	Elongation	Aged (168h @ 175°C)	≥ 100% MIL-I-23053
	Heat shock (4h @ 250°C)	Pass	MIL-I-23053
	Low temperature flexibility (4h @ -55°C)	No crack	MIL-I-23053
	Secant modulus	≤ 173 MPa	ASTM D 882
<b>Electrical</b>	Dielectric strength	≥ 19,7 kV/mm	ASTM D 2671
	Volume resistivity	≥ 1x10 <sup>14</sup> Ω-cm	ASTM D 876
<b>Chemical</b>	Fluid resistance (24h @ 24°C)	Tensile strength	≥ 0,7 kgf/mm <sup>2</sup> MIL-I-23053
		Dielectric strength	≥ 15,8 kV/mm
	Corrosion (16h @ 175°C)	Copper	No corrosion
		Copper mirror	No corrosion
	Flammability	Pass	UL 224
Fungus resistance	No growth	ASTM G 21	

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.







### Features/Applications

GREMARK® PGDR 135 is a flat printable, flame retardant, diesel resistant polyolefin heat shrink tubing in a spool, for cable identification systems.

GREMARK® PGDR 135 is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies for railway applications.

### Various

Standard colours: White, Yellow.

### Specifications

SNCF NF F00-608, MRT.H approved.

ASTM, SAE-AMS-DTL-23053/6 class 1

### Preferred printer/ribbon combination

To be used with the Gremtek printing system

- Thermal transfert printer type A4+M (one side) or XD4M (double side)
- Thermal transfert ribbon type GR-TT6900

### Dimensions



Reference <i>GREMARK® PGDR 135</i>	As supplied (mm)	After recovery (mm)		Standard Length (m/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Wall Thickness (t)	
3/32	2,4	0,80	0,50	150
1/8	3,2	1,10	0,50	150
3/16	4,8	1,60	0,55	60
1/4	6,4	2,10	0,55	60
3/8	9,5	3,20	0,60	60
1/2	12,7	6,40	0,40	60
3/4	19,1	9,50	0,46	60
1	25,4	12,7	0,50	60
1-1/4	31,8	15,9	0,65	60
1-1/2	38,1	19,1	0,65	60
2	50,8	25,4	0,65	60

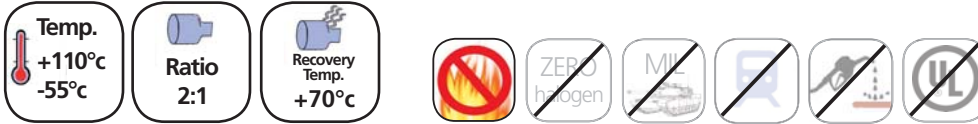
•Spools as standard, cut pieces available on request

### Property

Property	Values	Test Methods	
<b>Physical</b>	Longitudinal change	-5 +10%	SAE-AMS-DTL-23053
	Specific gravity	1,25	ASTM D 792
	Tensile strength	≥ 15 MPa	ASTM D 638
	Elongation at break	≥ 375%	ASTM D 638
	Secant modulus	Min. 173 MPa	ASTM D 882
	<b>Thermal</b>	Working temperature	-55°C up to +135°C
Heat Shock (250°C x 4h)		no crack, flowing or dripping	SAE-AMS-DTL-23053
Elongation after heat ageing (175°C x 168h)		≥ 300%	ASTM D 638
Low temperature flexibility (-55°C x 4h)		no cracking	SAE-AMS-DTL-23053
Copper Corrosion (175°C x 16h)		no corrosion	SAE-AMS-DTL-23053
<b>Electrical</b>		Volume Resistivity	≥ 15 <sup>15</sup> Ω·cm
	Dielectric Strength	≥ 30 kV/mm	ASTM D 876
<b>Chemical</b>	Flammability Procedure B	Pass	ASTM D 2671
	Water Absorption	< 0,5%	ASTM D 570
	Fluid Resistance (after immersion 23°C x 24h)	Mini. 6,9 MPa (Tensile Strength)	SAE-AMS-DTL-23053
	Fluid Resistance (after immersion 23°C x 24h)	Mini. 15,8 kV/mm (Dielectric Strength)	SAE-AMS-DTL-23053
	Diesel oil resistance	Min. 7 MPa (Tensile strength)	NF F00-608 (V=100±5 mm/min)
	Diesel oil resistance	Min. 200% (Elongation)	NF F00-608
	Mineral oil resistance	Req 5.5.3	NF F00-608
	Ozone resistance	Req 5.5.10	NF F00-608

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





### Features/Applications

GREMARK® PG55Z is a flat printable, halogen free, flame retardant polyolefin heat shrink tubing in a spool, for cable identification systems.

GREMARK® PG55Z produces neither toxic smoke nor harmful substances.

GREMARK® PFC4P is suitable for identifying cables and wires in electrical cabinets, cable harness assemblies for mass transportation applications where zero halogen sleeves are required.

### Various

Standard colours: White, Yellow. Other colours available on request.

### Preferred printer/ribbon combination

For heat shrink characteristics please refer to GREMTUBE® G55Z

To be used with the Gremtek printing system

- Thermal transfert printer type A4+M (one side) or XD4M (double side)
- Thermal transfert ribbon type GR-TT6100

### Dimensions



Reference <i>GREMARK® PG55Z</i>	As supplied (mm)	After recovery (mm)		Flat width approx. (mm)	Standard Length (m/spool)
	Inside Diameter Mini. (D)	Inside Diameter Maxi. (d)	Wall Thickness Mini. (t)		
120	1,20	0,60	0.30	2,50	100
160	1,60	0,80	0.32	3,00	100
240	2,40	1,20	0.35	4,50	100
320	3,20	1,60	0.38	6,00	100
480	4,80	2,40	0.45	8,50	100
640	6,40	3,20	0.50	11,00	50
950	9,50	4,80	0.60	16,00	50
1270	12,70	6,40	0.60	21,00	50
1910	19,10	9,50	0.75	31,00	50
2540	25,40	12,70	0.90	41,00	30

• Spools as standard, cut pieces available on request

### Property

Property	Values	Test Methods
<b>Physical</b> Operating temperature	-55°C to +125°C	IEC 216
Longitudinal change	±10 %	-
Tensile strength	>7.3 MPa	ASTM D 2671
Elongation at break	>200%	ASTM D 2671
Eccentricity	<30%	ADTM D 2761
Heat shock	No cracking	250°C/4 hrs.
Tensile strength	Heat aging 158°C, 168 hrs.	9.0MPa
Ultimate elongation		>150%

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.





**Features/Applications**

GREMARK® GR TT6100 and GR TT6900 are thermal transfert ribbons specially developed for the GREMARK® products family.

**GREMARK® GR-TT6100** offers very good print permanence. It is recommended for use in the electrical and railway industries.

**Preferred Printer/Tubing combination**

Thermal transfert printer:  
 A4+M (one side), XD4M (double side).  
 Heat-shrink tubing:  
 GREMTUBE® PG61, PG61 3X, GREMARK® GMEC2, GMEC3, PG55Z.

**Dimensions**

Standard width (mm)	Standrad Colours	Ink Side	Core - Inside Diameter (mm)	Standard Length (m/ribbon)
<b>GREMARK® GR-TT6100</b>				
20, 40, 80 or 110	Black, white	Ink side out	25,4	300

**GREMARK® GR-TT6900** offers very good print permanence and high chemical resistance (diesel, fuel and oil). It is recommended for railway industry.

**Preferred Printer/Tubing combination**

Thermal transfert printer:  
 A4+M (one side), XD4M (double side).  
 Heat-shrink tubing:  
 GREMARK® GMG2, GMG3, PGDR135, GMDR.

**Dimensions**

Standard width (mm)	Standrad Colour	Ink Side	Core - Inside Diameter (mm)	Standard Length (m/ribbon)
<b>GREMARK® GR-TT6900</b>				
20, 40, 80 or 110	Black	Ink side out	25,4	300

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.

*Please contact our technical support to choose the ribbon linked to the application(tubing/sleeve/printer).*





## Features

GREMARK® A4+M is a high performance thermal transfer printer specially designed for high volume printing. It accommodates printing on GREMARK® flattened tubing and sleeve with a diameter range from 3mm to 39mm providing the optimum in flexibility, print quality and permanence.

## Benefits

Centred material guide allows:

- No adjustment of the print head for different widths of material.
- Printing on very narrow or very thick continuous materials.
- The gap height at the material sensor for flat tubes and synthetic tapes is up to 4 mm.
- The print speed for difficult printable materials is reduced to 30-125 mm/sec.

## Heat shrink tubing/ribbon combination

- Inline tubing: GREMTUBE® PG61, PG61 3X, PGDR 135 and PG55Z.
- Ladder format tubing: GREMARK® GMEC2, GMEC3, GMG2, GMG3 and GMDR.
- Ink ribbon: GREMARK® GR TT6100 and GR TT6900.

## Technical data

1. Printhead		A4+M	
Print method	Thermal transfer	■	
	Thermal direct	■	
Print resolution dpi		300	
Print speed up to mm/s		30, 40, 50, 75, 100, 125	
Print width mm		105.6	
2. Material			
Labels, continous rolls or fan-folded		Paper, cardboard, textiles, synthetics like PET, PE, PP, PVC, PU, Acrylat, PI	
Material thickness mm / weight g/m <sup>2</sup>		0.05 - 0.8 / 60 - 300	
Width:	Label <sup>1)</sup> mm	4 - 106	
	carrier material or continuous material <sup>1)</sup> mm	10 - 110	
	shrinkable tubing <sup>1)</sup> mm	3.5 - 110	
Label Height <sup>1)</sup> without back feed	from mm	5	
	up to mm	4000	1000
Media roll:	Total diameter up to mm	205	
	Core diameter mm	38 - 100	
	Winding direction	outside or inside	
3. Ribbon			
Ink		outside or inside	
Roll diamter up to mm		80	
Core diameter mm		25	
Ribbon length variable up to m		500	
Width <sup>2)</sup> up to mm		50 - 114	
5. Dimensions of the printer			
Height x Depth mm		274 x 446	
Width mm		242	
Weight kg		9	
6. Label sensor			
See-through sensor		for leading edge of the label or punching marks and end of material	
Reflective sensor from the botton / from the top		for printing marks	
Distance from the center to the left mm		0 - 53	



## Features

GREMARK® XD4M is a high performance thermal transfer printer specially designed for high volume and 24-hour cycles. It prints on both side on GREMARK® flat tubing and sleeve with a diameter range from 3mm to 39mm providing the optimum in flexibility, print quality and permanence.

## Features and benefits

- Two stacked print engines for simultaneous printing on front and back.
- No adjustment of the print head for different widths of material.
- The gap height at the material sensor for flat tubes and synthetic tapes is up to 4 mm.
- The print speed for difficult printable materials is reduced to 30-125 mm/sec.

## Heat shrink tubing/ribbon combination

- Inline tubing: GREMTUBE® PG61, PG61 3X, PGDR 135 and PG55Z.
- Ladder format tubing: GREMARK® GMEC2, GMEC3, GMG2, GMG3 and GMDR.
- Ink ribbon: GREMARK® GR TT6100 and GR TT6900.

## Technical data

1. Printhead		XD4M/300
Print method		Thermal transfer
Print resolution dpi		300
Print speed up to mm/s		30, 40, 50, 75, 100, 125
Print width mm		105.6
2. Material		
Continous rolls or fan-folded		Paper, cardboard, textiles, synthetics PET, PE, PP, PVC, PU, Acrylat, PI
Material thickness mm / weight g/m <sup>2</sup>		0.05 - 0.8 / 60 - 300
Width:	Continuous material <sup>1)</sup> mm	10 - 110
	Shrinkable tubing mm	3.5 - 110
Height <sup>1)</sup> up to mm		2000
Media roll:	Total diameter up to mm	300
	Core diameter mm	38 - 100
	Winding direction	outside or inside
3. Ribbon		
Ink		outside or inside
Roll diameter up to mm		80
Core diameter mm		25
Ribbon length variable up to m		500
Width <sup>2)</sup> up to mm		114
5. Dimensions of the printer		
Height x Depth mm		395 x 554
Width mm		248
Weight kg		21
6. Label sensor		
See-through sensor		for leading edge of the label or punching marks and end of material
Reflective sensor from the botton		for printing marks
Distance from the center to the left mm		0 - 53

## Quality policy

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To ensure the consistent quality of its products, GREMTEK is committed to a policy of continuous quality improvement and rigorous traceability.

GREMTEK has implemented a quality system accredited to ISO 9001 version 2008.



## Cutting tolerances

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Cutting length (mm)	Tolerances ( ± ) (mm)
5 to 50	1.50
50 to 100	1.50
100 to 150	2.00
150 to 300	3.00
300 to 700	5.00
700 to 1000	8.00
≥ 1000	1 %