

Tubolit® DG

THE ECONOMIC INSULATION FOR
EFFECTIVE ENERGY SAVING



- Flexible PE insulation material to save energy and improve acoustic comfort for domestic heating and plumbing applications
- Meets Domestic Building Services Compliance Guide Part L Guidance
- Matching range for plastic pipe sizes

- Euroclass E
- $\lambda_{40\text{ }^{\circ}\text{C}} \leq 0,040 \text{ W}/(\text{m} \cdot \text{K})$

TUBOLIT QUICK

A new range of pre-cut Tubolit elbow and t-pieces to provide a convenient and quick installation method on heating and plumbing fittings.

Available in 9, 13 and 19mm thickness to fit 15, 22 and 28mm plastic and copper pipe diameters, the pieces have a unique and patented design to fix the insulation in place around elbow and t-piece fittings, without the need for clips or tape to seal them in place.



POINT OF SALE

Tubolit Quick elbows and t-pieces are supplied containing two elbows and t-piece fittings per bag and are packaged so they can be positioned at the point of sale on plumbing trade counters.

As well as a fast and easy way to insulate fittings, the Tubolit Quick elbows and t-pieces ensure no gaps are present at connection points to prevent heat losses and save energy.

Technical Data - Tubolit DG

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on domestic heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Property	Value/Assessment	Test ^{*1}	Special Remarks	
Temperature Range				
Temperature Range	Max. service temperature	+ 100 °C (+ 85 °C for tapes)	EU 5673 EU 5681 Tested acc. to EN 14707 and EN 14313	
	Min. service temperature	(as typical for heating and plumbing installations)		
Thermal Conductivity				
Thermal Conductivity	ϑ_m 40	[°C]	EU 5673 EU 5681 Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497	
	Tubolit DG tubes 5 - 30 mm	$\lambda \leq 0.040$ W/(m · K)		$[36 + 0.1 \cdot \vartheta_m + 0.0008 \cdot (\vartheta_m - 40)^2] / 1000$
	Tubolit DG self-adhesive tape	$\lambda \leq 0.045$ W/(m · K)		$[41 + 0.1 \cdot \vartheta_m + 0.0008 \cdot (\vartheta_m - 40)^2] / 1000$
Fire performance				
Reaction to fire ¹	Tubolit DG standard tubes 5 - 30 mm	E	EU 5673 EU 5681 Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2	
	Tubolit DG self-adhesive tape			
Acoustic performance				
Reduction of structure-borne sound transmission	Insulation effect	≤ 30 dB(A)	D 2762 Tested acc. to DIN 52219 and EN ISO 3822-1	
Other technical features				
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2		EU 5673 EU 5681 Tested acc. to EN 822 EN 823 EN 13467	
Storage & Shelf life	Tapes self-adhesive and tubes self-seal: 1 year		Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).	

1. The building materials classification is valid on metal or solid, mineral surfaces.

*1 Further documents such as test certificates and approvals can be requested using the registration number given.

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. Installation instructions are available. Please consult our Technical Department before insulating stainless steel. Armaflex 520 adhesive must be used to guarantee correct installation.

Tubolit DG tubes



Length 2.0 m

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			13,0 mm insulation thickness		
	Code	m/carton		Code	m/carton	
10	TL-10/9-DGU	520		TL-10/13-DGU	330	
15	TL-15/9-DGU	380		TL-15/13-DGU	256	
22	TL-22/9-DGU	250		TL-22/13-DGU	180	
28	TL-28/9-DGU	190		TL-28/13-DGU	140	
35	TL-35/9-DGU	150		TL-35/13-DGU	120	
42	TL-42/9-DGU	110		TL-42/13-DGU	90	
48	TL-48/9-DGU	90		TL-48/13-DGU	70	
54	-	-		TL-54/13-DGU	66	
60	-	-		TL-60/13-DGU	56	
76	-	-		TL-76/13-DGU	42	

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness			25 mm insulation insulation thickness		
	Code	m/carton		Code	m/carton	
15	TL-15/19-DGU	134		TL-15/25-DGU	100	
22	TL-22/19-DGU	108		TL-22/25-DGU	80	
28	TL-28/19-DGU	96		TL-28/25-DGU	66	
35	TL-35/19-DGU	70		TL-35/25-DGU	56	
42	TL-42/19-DGU	60		TL-42/25-DGU	28	

Pipe max. Outside-Ø [mm]	30 mm insulation insulation thickness					
	Code	m/carton				
35	TL-35/30-DGU ●	28		-	-	-
42	TL-42/30-DGU ●	24		-	-	-
54	TL-54/30-DGU ●	22		-	-	-

● Not a stock item. Delivery on request.

Tubolit DG tubes [1m]



Length 1.0 m

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			13,0 mm insulation thickness		
	Code	m/carton		Code	m/carton	
15	TL-15/9-DGU-1M	190		TL-15/13-DGU-1M	128	
22	TL-22/9-DGU-1M	125		TL-22/13-DGU-1M	90	
28	TL-28/9-DGU-1M	95		TL-28/13-DGU-1M	70	
35	TL-35/9-DGU-1M	75		TL-35/13-DGU-1M	60	

Pipe max. Outside-Ø [mm]	19,0 mm insulation thickness			25 mm insulation insulation thickness		
	Code	m/carton		Code	m/carton	
15	TL-15/19-DGU-1M	67		TL-15/25-DGU-1M	50	
22	TL-22/19-DGU-1M	54		TL-22/25-DGU-1M	40	
28	TL-28/19-DGU-1M	48		TL-28/25-DGU-1M	33	
35	TL-35/19-DGU-1M	35		TL-35/25-DGU-1M	28	

Tubolit DG tubes DBSCG



Thicknesses required for adherence to Part L Domestic Building Services Compliance Guide regarding the maximum permissible heat losses from central heating pipework

Pipe max. Outside-Ø [mm]	Domestic Building Services Compliance Guide Range insulation thickness				
	Max. Permissible Heat loss [W/m]	Thickness [mm]	Code	m/carton	
10	7.23	13.0	TL-10/13-DGU	330	
15	7.89	19.0	TL-15/19-DGU	134	
22	9.12	25.0	TL-22/25-DGU	80	
28	10.07	25.0	TL-28/25-DGU	66	
35	11.08	30.0	TL-35/30-DGU ●	28	
42	12.19	30.0	TL-42/30-DGU ●	24	
54	14.12	30.0	TL-54/30-DGU ●	22	

● Not a stock item. Delivery on request.

Tubolit DG pre-fabricated elbows



Colour Grey, Pre-cut 90° Elbows, 2 pieces per bag

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			13,0 mm insulation thickness		
	Code	Bags/carton		Code	Bags/carton	
15	TL-15/9-Q90-2	50x2		TL-15/13-Q90-2	50x2	
22	TL-22/9-Q90-2	50x2		TL-22/13-Q90-2	50x2	

Tubolit DG pre-fabricated t-pieces



Colour Grey, Pre-cut t-pieces, 2 pieces per bag

Pipe max. Outside-Ø [mm]	9,0 mm insulation thickness			13,0 mm insulation thickness		
	Code	Bags/carton		Code	Bags/carton	
15	TL-15/9-QET-2	50x2		TL-15/13-QET-2	50x2	
22	TL-22/9-QET-2	50x2		TL-22/13-QET-2	50x2	

Tubolit Accessories



Code	Description	Pieces/bag	Pieces/carton	
TLT-TAPE/50-DG ●	Tubolit DG PE Tape Grey (10 m x 50mm width)	-	12	
TL-CLIPS ●	Tubolit Clips (bags of 100 clips)	100	25	

Remark Delivery 10 working days

● Not a stock item. Delivery on request.