

Tubolit[®] DG

THE ECONOMIC INSULATION FOR
EFFECTIVE ENERGY SAVING



- Flexible PE insulation material to save energy and improve acoustic comfort for heating and plumbing applications
- Meets Domestic Building Services Compliance Guide Part L Guidance
- Matching range for plastic pipe sizes
- Euroclass E
- $\lambda_{40\text{ }^{\circ}\text{C}} \leq 0,040 \text{ W}/(\text{m} \cdot \text{K})$



Technical Data - Tubolit DG

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Material Special Information	Self-adhesive coating on tapes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
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. EC Certificate of Conformity no. 0550, 0551 and 0543 (tape) of Güteschutzgemeinschaft Hartschaum (GSH) e.V. , Celle

Property	Value/Assessment			Test ¹	Special Remarks	
Temperature Range						
Temperature Range	Max. service temperature	+ 100 °C	(+ 85 °C for tapes)	EU 5212 EU 5221 EU 5232	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 5212 EU 5221 EU 5232	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497	
	Tubolit DG	$\lambda \leq 0.040$	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		E	EU 5212 EU 5221 EU 5232	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2	
	Tubolit DG self-adhesive tape		E			
Other technical features						
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2			EU 5212 EU 5221 EU 5232	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			25,0 mm 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 ¹	66	
35	TL-35/19-DGU	70		TL-35/25-DGU	56	
42	TL-42/19-DGU	60		TL-42/25-DG-B1	28	

¹ For steel pipes.

Tubolit 9mm & 13mm supplied semi-slit. Tubolit 19mm & 25mm supplied fully-slit.

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			25,0 mm 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 ²	33	
35	TL-35/19-DGU-1M	35		TL-35/25-DGU-1M	28	

² For steel pipes

Tubolit 9mm & 13mm supplied semi-slit. Tubolit 19mm & 25mm supplied fully-slit.

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]	Max. Permissible Heat loss [W/m]	Thickness [mm]	Code	m/carton	
10	7.06	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 ³	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.

³ For steel pipes

Tubolit Quick pre-fabricated elbows



Colour Grey, Pre-cut 90° Elbows

Pipe max. Outside-Ø [mm]	Code	Thickness [mm]	Description	Pieces/carton
15	TL-15/9-Q90-4	9	90° Bend 15mm x 9mm	39x4
15	TL-15/25-Q90-1	25	90° Bend 15mm x 25mm	25
22	TL-22/9-Q90-4	9	90° Bend 22mm x 9mm	20x4
22	TL-22/19-Q90-1	19	90° Bend 22mm x 19mm	12x2