

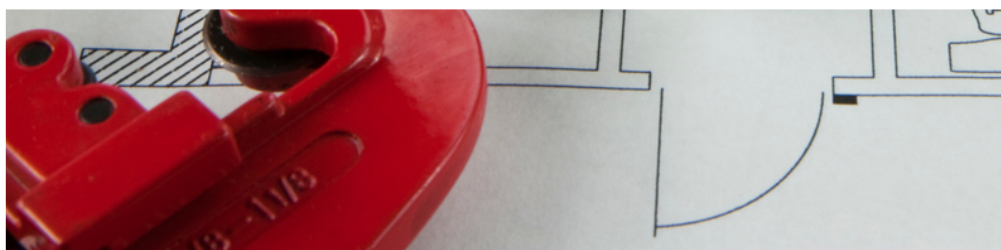
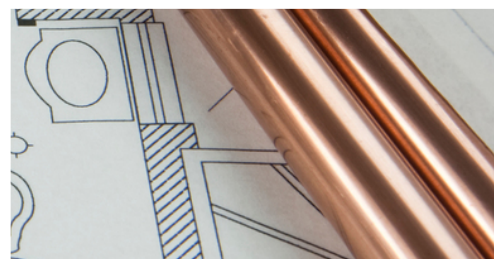
INSTALL IT. BENEFIT FROM
THE RANGE.

Tubolit DG

The flexible PE insulation material to
save energy and improve acoustic
comfort for heating and plumbing

- // Complete range for plumbers
- // Matching range for plastic pipe sizes
- // Economic insulation

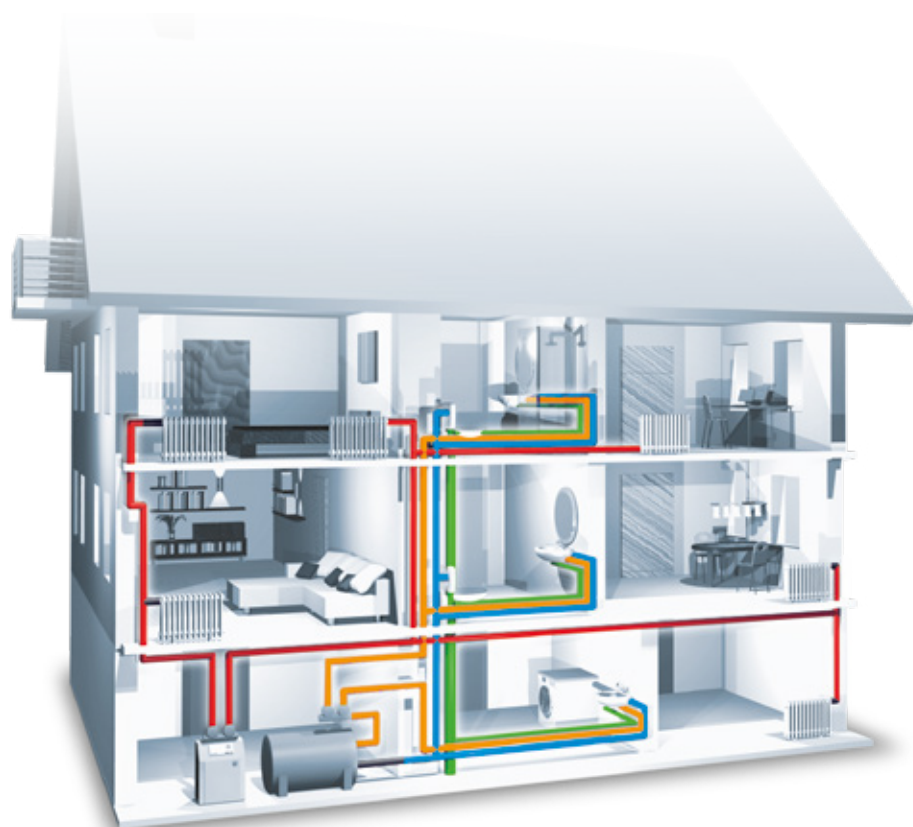
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 **armacell**[®]
ArmaLight[™]

INSTALL IT. BENEFIT FROM THE RANGE.

ArmaLight Tubolit



ArmaLight Tubolit saves energy, improves acoustic comfort in buildings and protects pipes installed within the building shell. ArmaLight Tubolit is the most complete range of thermal, acoustical and protective insulation products for installations of heating, domestic hot and cold water and sewage pipes in both residential as well as public and commercial buildings.

— Heating
 — Domestic hot water
 — Cold water pipes
 — Waste water

Typical application areas

Product	Type of installation				Additional Benefit /Requirement				
	Heating	Domestic hot water	Cold water pipes	Waste water	Extra protection	50% faster application	Noise reduction	Under plaster	Under floor
ArmaLight Tubolit									
DG						
DG self-seal			✓			
DG-B1						
DG Plus						
S		✓		✓	✓	
S Plus			...		✓		✓	✓	
DHS Quadra	...				✓		✓		✓
AR Fonowave				...	✓		✓		
AR Fonoblok				...	✓		✓		

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.
Additional material information	Self-adhesive coating on tapes and self-seal coating on tubes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Product colour range	Grey
Applications	Insulation/protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (including elbows, fittings, flanges, etc).
Installation	Certified and compatible adhesive for a long-term performing system is ArmaFlex 520. Please refer to the relevant Armacell application manual for advice. For further information please contact our Customer Service Centre.
Declaration of performance	Declaration of Performance in accordance with Article 7(3) of Regulation (EU) No 305/2011 is available at www.armacell.com/DoP .
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.

Property	Value / Assessment		Standard / Test method
Operating temperature			
Operating temperature	Maximum temperature: 100°C, +85 °C for tapes Minimum temperature: As is usual in plumbing and heating installations		EN 14707, EN 14313
Thermal conductivity			
Declared thermal conductivity	Θm	40°C	EN ISO 13787, EN ISO 8497
	λd ≤ [W/(m·K)]	0,04	
	Range	Tubolit DG tubes 5-30 mm	
	Formula	[36 + 0,1· Θm + 0,0008 ·{Θm-40}²]/1000	
Declared thermal conductivity	Θm	40°C	EN ISO 13787, EN ISO 8497
	λd ≤ [W/(m·K)]	0,045	
	Range	Tubolit DG self-adhesive tape	
	Formula	[41 + 0,1· Θm + 0,0008 ·{Θm-40}²]/1000	
Fire Performance and Approvals			
Reaction to fire	Tubolit DG standard tubes 5-30 mm: E(L) Tubolit DG self-adhesive tape: E		EN 13501-1, EN ISO 11925
Physical attributes			
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2		EN 822, EN 823, EN 13467
Acoustic performance			
Reduction of structure-borne sound transmission	Insulation effect ≤ 30 dB(A)		EN ISO 3822-1
Health and environment			
Volatile organic compounds (VOC) content	Fulfills all VOC requirements (French, Italian, Belgian, German AgBB, Blauer Engel and Eurofins Indoor Air Comfort GOLD).		ISO 16000 Parts 3, 6 & 9
Environmental Product Declaration (EPD)	Type III Environmental Product Declaration (EPD): Declaration number "150/2021", Instytut Techniki Budowlanej (ITB) Type III Environmental Product Declaration (EPD): Declaration number "151/2021", Instytut Techniki Budowlanej (ITB)		
Additional features	SCCP, MCCP-free		

Property	Value / Assessment	Standard / Test method
Other technical features		
Shelf life	Tapes self-adhesive and tubes self-seal: 1 year	
Storage	Can be stored in dry, clean rooms at normal relative humidity (50% to70%) and ambient temperature (0 °C –35 °C).	

Tube – 1m. Grey. Packed in cartons.

9 mm			13 mm			19 mm			25 mm		
Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Content [metric]
10	TL-10/9-DGU-1M	260 m	10	TL-10/13-DGU-1M	165 m	15	TL-15/19-DGU-1M	67 m	15	TL-15/25-DGU-1M	50 m
15	TL-15/9-DGU-1M	190 m	15	TL-15/13-DGU-1M	128 m	22	TL-22/19-DGU-1M	54 m	22	TL-22/25-DGU-1M	40 m
22	TL-22/9-DGU-1M	125 m	22	TL-22/13-DGU-1M	90 m	28	TL-28/19-DGU-1M	48 m	28	TL-28/25-DGU-1M	33 m
28	TL-28/9-DGU-1M	95 m	28	TL-28/13-DGU-1M	70 m	35	TL-35/19-DGU-1M	35 m	35	TL-35/25-DGU-1M	28 m
35	TL-35/9-DGU-1M	75 m	35	TL-35/13-DGU-1M	60 m	42	TL-42/19-DGU-1M	30 m	42	TL-42/25-DGU-1M	22 m
42	TL-42/9-DGU-1M	55 m	42	TL-42/13-DGU-1M	45 m	-	-	-	-	-	-
48	TL-48/9-DGU-1M	45 m	48	TL-48/13-DGU-1M	35 m	-	-	-	-	-	-
-	-	-	54	TL-54/13-DGU-1M	33 m	-	-	-	-	-	-
-	-	-	60	TL-60/13-DGU-1M	28 m	-	-	-	-	-	-
-	-	-	76	TL-76/13-DGU-1M	21 m	-	-	-	-	-	-

Tube – standard. Grey. Length 2 meter.

9 mm			13 mm			19 mm			
Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Insulation thickness [mm]	Content [metric]
10	TL-10/9-DGU	520 m	10	TL-10/13-DGU	330 m	15	TL-15/19-DGU	19	134 m
15	TL-15/9-DGU	380 m	15	TL-15/13-DGU	256 m	22	TL-22/19-DGU	19	108 m
18	TL-18/9-DGU	330 m	22	TL-22/13-DGU	180 m	28	TL-28/19-DGU	19	96 m
22	TL-22/9-DGU	250 m	28	TL-28/13-DGU	140 m	35	TL-35/19-DGU	19	70 m
28	TL-28/9-DGU	190 m	35	TL-35/13-DGU	120 m	42	TL-42/19-DGU	19	60 m
35	TL-35/9-DGU	150 m	42	TL-42/13-DGU	90 m	-	-	-	-
42	TL-42/9-DGU	110 m	48	TL-48/13-DGU	70 m	-	-	-	-
48	TL-48/9-DGU	90 m	54	TL-54/13-DGU	66 m	-	-	-	-
-	-	-	60	TL-60/13-DGU	56 m	-	-	-	-
-	-	-	76	TL-76/13-DGU	42 m	-	-	-	-

Tube – standard. Grey. Length 2 meter.

25 mm			30 mm		
Pipe Ø [mm]	Item	Content [metric]	Pipe Ø [mm]	Item	Content [metric]
15	TL-15/25-DGU	100 m	35	TL-35/30-DG	34 m
22	TL-22/25-DGU	80 m	42	TL-42/30-DG	26 m
28	TL-28/25-DGU	66 m	54	TL-54/30-DG	22 m
35	TL-35/25-DGU	56 m	-	-	-
42	TL-42/25-DGU	28 m	-	-	-

Accessories

Item	Description	Content [quantity]
TL-CLIPS	Tubolit Clips for fixation/closure of Tubolit insulation pipes	25 bag
TLT-TAPE/50-DG	Tubolit DG PE tape 50 mm x 10 m. Grey colour.	12 roll(s)

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



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