

Tubolit® DG

THE ECONOMIC INSULATION FOR
EFFECTIVE ENERGY SAVING



- Meets European energy regulations
- Improved acoustic comfort
- Matching range for plastic pipe sizes
- Euroclass E

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 and self-seal coating on tubes: 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 Constancy of Performance no. 0551 and 0543 (tape) of Güteschutzgemeinschaft Hartschaum (GSH) e.V. , Celle

Property	Value/Assessment				Test ¹	Super- vision ²	Special Remark		
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 is usual in plumbing and heating installations)				
Thermal Conductivity									
Thermal Conductivity	ϑ_m 40		[°C]		λ =		EU 5673 EU 5681	○/●	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 5673 EU 5681		○/●	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2	
	Tubolit DG self-seal tubes		E						
	Tubolit DG self-adhesive tape		E						
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 reaction to fire classification is valid on metal surfaces.

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

*2 ●: Official supervision by independent institutes and /or test authorities
○: Own in-factory quality monitoring

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Installation instructions are available. Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

Tubolit® DGB1

SPECIFIC INSULATION COMBINING
EFFECTIVE ENERGY SAVING AND
REDUCED SMOKE IN CASE OF FIRE



- Meets European energy regulations
- Improved acoustic comfort
- Matching range for plastic pipe sizes
- [New range specially developed for the Swiss market's new fire regulation]

Technical Data - Tubolit DG B1

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses on 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. EC Certificate of Constancy of Performance no. 0551 of Güteschutzgemeinschaft Hartschaum (GSH) e.V. , Celle

Property	Value/Assessment				Test ^{*1}	Super- vision ^{*2}	Special Remark		
Temperature Range									
Temperature Range	max. service temperature		+ 100 °C		(+ 85 °C for tapes)		EU 5672	o/●	Tested acc. to EN 14707 and EN 14313
	min. service temperature				(as is usual in plumbing and heating installations)				
Thermal Conductivity									
Thermal Conductivity	ϑ _m 40		[°C]		λ=		EU 5672	o/●	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit DG-B1	λ ≤ 0,040	W/(m · K)		[36 + 0,1 · ϑ _m + 0,0008 · (ϑ _m -40) ²]/1000				
Fire performance									
Reaction to fire ¹	Tubes 5 - 25 mm		D _L -s2, d0		EU 5672		o/●	Classified acc. to EN 13501-1 Tested acc. to EN 13823 and EN ISO 11925-2	
	Tubes 26 - 27 mm		E						
Acoustic Performance									
Reduction of structure-borne sound transmission	Tubolit on steel water pipes		≤ 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 5672		o/●	Tested acc. to EN 822 EN 823 EN 13467	

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Tubolit® DG Plus

THE LOW SMOKE POLYETHYLENE
INSULATION FOR EFFECTIVE ENERGY
SAVING IN WARM APPLICATIONS



- Low smoke
- Low flame spread
- Meets European energy regulations
- Euroclass B_L-s1,d0
- Also suitable for plastic and multi-composite pipes

Armacell India Pvt. Ltd.

GAT No. 744-745, Village Lonikand, Pune Nagar Road • 412216 Pune •
Maharashtra • India
Phone +91 20 66782000
www.armacell.com • info.isa@armacell.com
CIN: U24293PN2005FTC131939