

Environmental declaration of building products - Thermal insulation

This declaration is set up in concordance with the guidelines established by the BYKR and the insulation material producers.



THE MAKERS OF
Armaflex
Tubolit
Oka - Products

Product group: PE-foam insulation

Decl. No :

Product:

A: Tubolit DG	E:	H:
B: Tubolit ZT	F:	J:
C: Tubolit SR+	G:	K:
D: Tubolit AR		

Set up date: 7/14/98
Revised : 23.05.2001

Manufacturer information Appendix:

Producer: Armacell AG, Pfaffnau, Switzerland
Contact person: B. Guanzioli
Environmental policy: In preparation
Certification: in progre: Cert. No: -

Supplier: _____
Contact person: _____
Environmental policy: _____
Certification: Cert. No: 3

Product information Appendix: B

Field of application: Thermal and accoustic insulation
Eco-labelling: No
Reg. No: -

Density, ρ : 25 - 35 kg/m³
Thermal conductivity, λ : 0,035 W/mK
Functional unit, fe: 2.1 kg

Declaration of content Appendix:

		COMPONENTS	QUANTITY	REMARKS
Basic product	Contents:	Thermoplastics	g/kg 905	
		Fillers and fire retardents	94	
		Pigments	1	
		Sum g/kg :	1000	
Miscellaneous				
for product C + D	PE-foil			

- Data are stated per kg product as it is supplied.
 - (b) = listed on KI:s begr-lista. (o) = listed on KI:s obs-lista.

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No	PART OF LIFE CYCLE	RAW MATERIALS		Quantity	ENERGY		EMISSIONS		IMPACT on ground
		Renew.	Non Renewable		source	quantity	to water	to air	
1	MATERIALS, ADDITIVES, etc.								Appendix:
1.1	Raw materials/ingredients:			g/kg		MJ/kg			
				915	Electricity Oil	42.3 MJ/kg	↑ ↓	↑ ↓ ↑ ¹⁾ ↓ ↓	Oil extraction Open cast mine Oil extraction, natural gas blowing agent is fully recovered and used for energy production
			84						
			100						
			1						
1.2	Additives								
1.3	Recycled materials Up to 100% clean waste can be recycled								
				Sum: 1100 g/kg	Sum:				
1.4	Origin of 1.1 - 1.3	Sweden: NA Europe: EC Other: Switzerland							
	Miscellaneous								
2	PRODUCTION								Appendix:
2.1	Production process (emission quotas exist)				Electricity	2.98 MJ/kg	none	fr raw materials: g/kg	fr raw materials: g/kg
								Hydrocarbons* 100	
								Sum: 100 g/kg	Sum: 0.0 g/kg
					Sum:	2.98 MJ/kg		*Energy to 98% recovered	
								from energy: na	
								Sum: zzz g/kg	

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- 1) = Data from EU-report for eco-labelling, published by dk-Teknik, Denmark. Energy data are reported as net-energy.

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No	PART OF LIFE CYCLE	INFORMATION AND DATA
3	DISTRIBUTION OF END PRODUCT	Appendix:
3.1	Place/country of production	Switzerland, Pfaffnau; UK, Oldham; Spain, Begur
3.2	Means of transportation	By road (97%), by rail (2%), by ship (1%)
3.3	Distribution systems	via own wholesalers/retailer stock, on palets or single carton
3.4	Packing	Cardboard made from recycled paper
4	THE CONSTRUCTION PHASE	Appendix:
4.1	Production	Package can be handled manually. Clean cardboard can be recycled
4.2	Product tailoring	Product range covers most actual dimensions used in practice (zero waste) Cut to fit, cutting to size with knife
5	THE SERVICE PHASE	Appendix:
5.1	Function	Energy and discharge: Considerable reduction of energy consumption and combustion gases. Noise: Effective sound absorption Water vapour barrier: Effective water vapour barrier
5.2	Maintenance	No maintenance required.
5.3	Life span (durability)	In corospondence with Technical Installations
6	DEMOLISHING	Appendix:
6.1	Dismounting	Easy to remove from unburried pipe sections by hand

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No	PART OF LIFE CYCLE	INFORMATION AND DATA
7 REST PRODUCTS		
Appendix:		
7.1	Reuse	Building waste: Clean product could be reused or be used as loose fill (granulated)
7.2	Material recycling	Demolition waste: Clean demolition waste can be regrinded and used for new insulation. Assumes "selective der
7.3	Energy extraction	Combustible, energy extraction is possible by special combustion equipment
8 WASTE PRODUCTS		
Appendix:		
8.1	Landfilling	noncompostable can be tipped (in Germany: EAK 070299; LAGA 57501)
9 INDOOR CLIMATE		
Appendix:		
9.1	Eco-label, indoor climate Allergenic substances	Contact allergens: NA Respiratory allergens: NA
9.2	Building process	
9.3	Product emissions (Chamber or FLEC method)	TVOC: < zz µg/m ² h. no test data available single VOC's: no test data available
9.4	Adjacent material	no test data available
9.5	References for recommendations acc to 9.4	
9.6	Service and maintenance	No maintencance needed
9.7	Noise level	NA
9.8	Magnetic and electric fields	NA
OTHER INFORMATION		
Appendix:		
NA = not applicable		