

Declaration of Performance No. 0543-CPR-2013-001

Unique identification code of the product-type:	AF/ArmaFlex
Intended use/es:	Thermal insulation of building equipment and industrial installations (ThiBEll)
Manufacturer:	Armacell GmbH Robert-Bosch-Str. 10 D-48153 Münster
System/s of AVCP:	1 and 3
Harmonised standard:	EN 14304:2009+A1:2013
Notified body/ies:	NB 0919
Declared performance/s:	

Essential characteristics	Performance		
Thermal resistance / Thermal conductivity	Tubes	$d_N = 7 - 25 \text{ mm (AF1 - AF4)}$	$\lambda_{0^\circ\text{C}} \leq 0,033 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (33 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2) / 1000$
	Tape, Sheets	$d_N = 3 - 32 \text{ mm}$	
	Tubes	$d_N = 25 - 45 \text{ mm (AF5 - AF6)}$	$\lambda_{0^\circ\text{C}} \leq 0,036 \text{ W}/(\text{m} \cdot \text{K})$ $\lambda(\vartheta_m) = (36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot \vartheta_m^2) / 1000$
	Tubes	$d_N = 55 \text{ mm}$	
	Sheets	$d_N = 36 - 50 \text{ mm}$	
Reaction to fire	Tubes	$d_N = 7 - 45 \text{ mm (AF1 - AF6)}$	$B_L - s3, d0$
	Tape, Sheets	$d_N = 3 - 50 \text{ mm}$	$B - s3, d0$
	Tubes	$d_N = 55 \text{ mm}$	E_L
Fire resistance	EI 15 - EI 90 ⁵⁾		
Durability of thermal resistance against ageing/ degradation	Dimensional stability ¹⁾ Minimum service temperature ST(-)50 (= -50 °C)		
Durability of thermal resistance against high temperatures	Maximum service temperature ST(+)110 (=110°C)		
Durability of reaction to fire against ageing/ degradation	Durability characteristics ²⁾		
Durability of reaction to fire against high temperature	Durability characteristics ²⁾		
Water permeability	NPD ⁴⁾		
Water vapour permeability/ Water vapour diffusion resistance	Tubes	$d_N = 7 - 25 \text{ mm (AF1 - AF4)}$	$\mu 10000 (\mu \geq 10000)$
	Tape, Sheets	$d_N = 3 - 32 \text{ mm}$	
	Tubes	$d_N = 25 - 45 \text{ mm (AF5 - AF6)}$	$\mu 7000 (\mu \geq 7000)$
	Sheets	$d_N = 36 - 50 \text{ mm}$	

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	Tubes	$d_N = 55 \text{ mm}$	$\mu 4000 (\mu \geq 4000)$
Rate of release of corrosive substances	Trace quantities of water-soluble chloride ions CL300 ($\leq 300 \text{ ppm}$)		
Acoustic absorption index	NPD ⁴⁾		
Release of dangerous substances to indoor environment	NPD ^{3) 4)}		
¹⁾ The thermal conductivity of flexible elastomeric foam does not change with time ²⁾ The fire performance of flexible elastomeric foam products does not change with time. ³⁾ European test methods are under development. ⁴⁾ No Performance Determined (NPD) ⁵⁾ Details: classification report K-3579/821/14 MPA BS			

This declaration of performance is made available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage:
<http://www.armacell.com/DoP>

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Georg Eleftheriadis, Technical Marketing Manager EMEA
Münster, 19.08.2020



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