



Dimensions of pipes – test sheet

For Metal and Plastics multilayer pipes

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Performed request Determination of the dimensions and layer thicknesses of PE-RT/EVOH/PE-RT pipes 18 x 2,0 mm in accordance with EN ISO 3126

Requested by ClouSet
Leinfelden (DE)

Performed by Kiwa Lab C
Wilmersdorf 50
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Netherlands

Requirements Dincertco Certification Scheme 2019-03

Referring documents EN ISO 3126: 2005 Plastics piping systems — Plastics components —
Determination of dimensions
DIN 4726: October 2017 Warmwasser-Flächenheizungen und
Heizkörperanbindungen –
Kunststoffrohr- und Verbundrohrleitungssysteme

Measured by Mr B. Meijerink
Sampled by Mr E. Kruse
Date of sampling 12-04-2022

Test conditions Temperature (23±2)°C
Humidity (50±5)%

Authorised by

Mr A.J. Rikers, Lab coordinator Lab C

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- In case of dispute regarding this test report please contact Kiwa Nederland B.V.



EN ISO 3126 Dimensions of pipes

1 Sample definition

Construction	:	PE-RT Type II/EVOH/PE-RT Type II, 5 layer pipe
Marking	:	ClouSet CLOUFLEX 18x2 Fussbodenheizungsrohr PE-RT Type II/EVOH/PE-RT Type II S Verbundrohr sauerstoffdicht nach DIN 4726.....(marking partly readable)
Inner layer	:	PE-RT Type II
Inner adhesive layer	:	Not specified
Barrier layer	:	EVOH
Outer adhesive layer	:	Not specified
Outer protective layer	:	Not specified
Colour (inside/outside)	:	Natural/silver with one axial red line
Date of production	:	14-10-2021

2 Test results

18 x 2,0 mm	(mm)	Sample No.		Specification in [mm]	Within spec.
		1 [mm]	2 [mm]		
- Mean	d_{em}	18,3	18,3	$18,0 \leq d_{em} \leq 18,3$	Yes
- Minimum	$d_{e, min}$	18,0	18,0		
- Maximum	$d_{e, max}$	18,5	18,5		
Wall thickness					
- Mean	e_m	2,08	2,03		
- Minimum	e_{min}	2,05	1,97	$e_{min} \geq 2,0$	Yes
- Maximum	e_{max}	2,10	2,08	$e_{max} \leq 2,3$	Yes
Layer thickness					
- Inner layer	$e_{min, inner}$	1,45	1,45		
	$e_{max, inner}$	1,70	1,61		
- Adhesive layer	$e_{min, in.adh}$	0,03	0,03		
	$e_{max, in.adh}$	0,06	0,06		
- Functional layer	$e_{min, funct}$	0,03	0,04		
	$e_{max, funct}$	0,06	0,05		
- Adhesive layer	$e_{min, out.adh}$	0,04	0,03		
	$e_{max, out.adh}$	0,06	0,05		
- Outer layer	$e_{min, outer}$	0,30	0,30		
	$e_{max, outer}$	0,39	0,37		

3 Remarks

None.