## **Test Report**

IZOTERMS Ø 60,3/125 mm - BASF H2130/83

Test Report No.: V352/17.1



## 4 Testing procedure and results - Thermal conductivity (unaged condition)

The determination of thermal conductivity (unaged condition) at the preinsulated pipe Ø 60,3/125 mm was carried out based on EN 253:2015 and ISO 8497.

Test equipment:

Test-equipment for determination of thermal conductivity on

pre-insulated pipes according to EN 253:2015, Annex F

Manufacturer: IMA Dresden / PMK B98-B2

Temperature measurement:

End apparatus:

2 x 6 thermocouples

calibrated endcaps; correction according to van Rinsum

Steel service pipe. Thermal insulation:

 $D_{S1} = 54,27$  mm,  $D_{S2} = 60,32$  mm, T = 3,02 mm PUR foam, BASF H2130/83

PE- Casing pipe:

 $D_{C3} = 118,68 \text{ mm}, D_{C4} = 125,31 \text{ mm}; e_{PE} = 3,32 \text{ mm}$ 

Number of measurements:

3

Technician:

Mr. Lehmann

Table 4-1 Test results - Thermal conductivity (unaged condition)

Heat flow - rate φ [W]	Temperature hot cold sample surface		Difference in temperature sample surface	Mean temperature of sample	Thermal conductivity of PUR-foam
	T <sub>1</sub> [°C]	T <sub>4</sub> [°C]	T <sub>1</sub> -T <sub>4</sub> [K]	T <sub>m</sub> [°C]	λ <sub>PUR</sub> [W/(m·K)]
20,45	71,89	26,54	45,35	49,32	0,0235
20,99	72,74	26,78	45,96	49,87	0,0238
21,85	74,08	26,90	47,18	50,61	0,0241
			$\lambda_{50} = 0.0238 \text{ W/(m*K)}$	)	

## 5 Summary

The test results documented in this test report verify that the tested characteristic thermal conductivity (unaged condition) of the preinsulated pipe Ø 60,3/125 mm with PUR rigid foam system BASF H2130/83 meet the requirements of DIN EN 253:2015-12.

Reviewed

Created

Dipl.-Ing. Heiko Below Laboratory for Pipe Systems Dipl.-Ing. Matthias Thölert Person in Charge