



Thermal Conductivity according to EN 12667

Test report No: F.2-4d/15

Applicant: Adolf Würth GmbH & Co. KG, 74650 Künzelsau
Name of the product: " PURLogic® EASY "
Product identification: Polyurethan (PUR) semi rigid foam board foamed by the manufacturer between two gypsum boards, made out of 1K or 2K PU foam cans. Density approx.: 17.5 kg/m³
 (as given by applicant)
Sampling: Sent by order of applicant in November 2014.
Goods Receipt: No. 94 dated 24.11.2014
Test equipment: Guarded hot plate apparatus according to EN 12667: Metering section 400 x 400 mm with guard section 800 x 800 mm
Preparation: Tested thickness^{+) :} 0.0723 m Mass^{+) :} 0.3170 kg
 Surface area tested: 0.2503 m² Density^{+) :} 17.5 kg/m³
Remarks: After arrival at the testing institute the test specimens were stored for 6 weeks at room temperature according to EN 12667. The test specimens were cut out with a thickness of approx. 72 mm and built into the apparatus without any facings or skins.

Experimental data:

Test No	Heat flow rate W	Temperature of the		Average temperature of the specimen °C	Temperature-difference of the specimen K	Thermal Conductivity W/(m·K)
		Warm Side °C	Cold Side °C			
1	2.582	18.5	2.7	10.6	15.8	0.0369
2	2.582	28.7	13.6	21.2	15.1	0.0389
3	2.581	42.6	28.8	35.7	13.8	0.0422
4	----	----	----	----	----	----
5	----	----	----	----	----	----

Uncertainty: < 2%

Properties of the material after conductivity-measurement up to 42.6 °C warm side: ^{+) Mean values (two specimens)}

Thickness^{+) :} 0.0723 m Mass^{+) :} 0.3170 kg
 Density^{+) :} 17.5 kg/m³ Change in mass: 0.0 %

Remarks: --

Results:

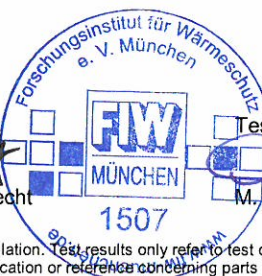
Mean temperature °C	10	20	30	---	---	---	---	---	---
Thermal conductivity W/(m·K)	0.037	0.039	0.041	---	---	---	---	---	---

Evaluation: These thermal conductivity values are only valid for the dry state of the foam.

Final remarks: -----

Gräfelfing, 14.01.15

Department Specialist Tester
 Dipl.-Ing.(FH) W. Albrecht M. Mayer



The only valid document is the one in German and not this translation. Test results only refer to test objects. The prior written consent of our Institute is required for any publication or reference concerning parts of this report.