



## Thermal Conductivity according to EN 12667:2001

Test report No.: F2-18-1702-01

**Applicant:** Technicae Progressum S.r.l.s., 31100 Treviso, Italy  
**Name of product:** „Econanosil eco2 “  
**Nominal thickness:** ---  
**Description:** Nanocomposite material  
(as given by applicant)  
 Dimensions: 500 mm x 500 mm x 26 mm  
**Sampling:** Sent by applicant.  
**Sample receipt:** WE18-4336 on Oct 02, 2018 (internal no. 1)  
**Test equipment:** Two specimen guarded hot plate apparatus (App. 3) according to EN 12667:2001 in horizontal specimen configuration  
 Metering section 300 mm x 300 mm with guard section 500 mm x 500 mm  
 All values of measured properties are mean values of two specimens.  
**Mounting:** Tested thickness: 26.0 mm      Tested mass: 2.121 kg  
 Tested density: 325 kg/m<sup>3</sup>      Specimen area: 0.2513 m<sup>2</sup>  
 Start of testing: Oct 04, 2018  
**Remark:** The specimens were built into the test apparatus without further conditioning.  
**Measured values:** Test protocol No: F2-18-1702:0001:1

Test No.	Heat flow W	Temperature of the		Temperature-difference of the specimen K	Mean temperature of the specimen °C	Thermal conductivity W/(m·K)
		Warm side °C	Cold side °C			
01	0.1696	18.9	1.8	17.1	10.3	0.0014

Uncertainty: < 3 %

**Dismounting:** Properties of the material after measurement up to 18.9°C on warm side:  
 Thickness: 26.0 mm      Mass: 2.121 kg  
 Density: 325 kg/m<sup>3</sup>      Change in mass: 0.0 %  
 End of testing: Oct 09, 2018

**Remark:** ---

**Evaluation:**

Mean temperature $\vartheta_m$ in °C	<b>10</b>	---	---	---	---	---	---	---	---	---
Thermal conductivity $\lambda$ in W/(m·K)	<b>0.0014</b>	---	---	---	---	---	---	---	---	---

**Remark:** The test results are only valid for the tested specimen under the test conditions at the time of measurement.  
 The stated values represent no declared values of the thermal conductivity according to European standards or design values of the thermal conductivity according to EN 10456:2010 or German regulations. The result is the measured value of the thermal conductivity without any ageing or safety increments, which is valid for the tested product at the time of measurement and may change over time due to permeation processes.

Gräfelfing, Oct 26, 2018

Department Specialist:

Tester:

Dipl.-Ing. (FH) C. Karrer

A. Bergler



Results relate only to the items tested.

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