



Fraunhofer

TESTED[®] DEVICE

eltherm production GmbH
ELPH-Cleanroom ID 40 mm
Report No. EL 1603-812

Outgassing Behavior VOC

DUPLICATE

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information:
www.tested-device.com

Qualification Certificate

This is to certify that the product mentioned above, provided by

eltherm production GmbH
Burbach, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number EL 1603-812.

The outgassing behavior of the heating jacket ELPH-Cleanroom – ID 40 mm (color: gray) at the stated temperatures was investigated according to VDI 2083-17. The surfaces exhibited the following outgassing rates for the corresponding contaminant group:

Test temperature	Contaminant group	Specific emission rate [g/m ² s]
23 °C	VOC	5.8 x 10 ⁻⁹
180 °C	Amines	not detectable
	Organophosphates	not detectable
	Siloxanes	3.4 x 10 ⁻⁷
	Phthalates	not detectable

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Stuttgart, May 31, 2016

on behalf of 
Frank Bürger, Project manager Fraunhofer IPA