



nora systems GmbH
Report No. NO 1101-543

Cleanroom® Suitable Materials

noraplan astro ec
TVOC (23°C/90°C): ISO -5.8 / tested

Flooring & Coating

DUPLICATE

Qualification Certificate

We hereby certify that the material stated above, provided by

nora systems GmbH

Höhnerweg 2-4
69469 Weinheim, Germany

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number NO 1101-543.


The tests are performed in accordance with CSM procedures included outgassing at various temperatures. The tested material obtained following classification in accordance with the standard listed below.

Outgassing at 23 °C / 73 °F	TVOC	ISO-AMC Class -5.8 (see ISO 14644-8)
Outgassing at 90 °C / 194 °F	Amines Organo-phosphates Siloxanes Phthalates	6.3 x 10 ⁻⁶ g/m ² s not detectable not detectable not detectable

The tested material was noraplan astro ec recipe 914. According to the manufacturer's specifications, there is no influence on the test results by the differing colors.

Detailed information regarding test environment and parameters used can be obtained from the CSM test report number NO 1101-543 issued by the Fraunhofer-Gesellschaft.

Stuttgart, May 30, 2011

i. A. 
Project manager

The validity of this certificate is temporary indefinite and limited to the named product. It can be verified on www.tested-device.com. For more CSM information, please visit www.ipa-csm.com.