

Product information for DEK blue type 6 in tests according to ISO 105-B06, 'Textiles, tests for colour fastness: Colour fastness and ageing to artificial light at high temperatures: Xenon arc fading lamp test'.

Since batch 2230 DL is no longer available on the market, the DEK tested the fading behaviour of batches 2230 KSL III and 2230 KSL V in one cycle (method 3 of the standard) in comparison with batch 2230 DL.

Result: In comparison with batch 2230 DL, batches 2230 KSL III and 2230 KSL V reached the cycle end point earlier by a factor of 1.24 and 1.27 or the relevant reciprocal values respectively.

The cycle times therefore need to be adjusted accordingly by the user.

Note: The correction factor was established by the Saxon Textile Research Institute (STFI) according to the accredited procedure DIN EN ISO 105-B06 using a Xenotest Beta with the following test parameters:

- Black-standard temperature: $(100 \pm 3)^\circ\text{C}$
- Filter system: Xenochrome 320
- Calculated radiation dose*: 14.47 MJ/m^2 at an irradiance of 60W/m^2
- Exposure time*: 67 hours under discontinuous lighting

*Average values of 3 tests in each case

This correction factor cannot be applied to other test conditions or devices without further consideration. The applicable correction factor in each case must be individually established by the testing institution in their own series of tests (for further details see the Introduction to DIN EN ISO 105-B06, Item 1, 'Scope of Application')

Reference:

'1 Area of application

...The five different exposure conditions specified can lead to different results when different optical filter systems are used. The results of tests carried out with various testing devices (device types) under the same exposure conditions and with the same optical filter systems are not comparable, since so far it has been impossible to confirm the comparability of the results.'