

NOCX – pipe surface temperature test

We tested the pipe surface temperatures of exposed HDPE pipes, black versus NOCX pipes, white.

Location: Kronberg (Hessen), Germany
Date: 24.06.2000 at 02.00 p.m.
Measuring device: Digital Thermometer GTH 1150, Resolution 1°C

Results

	Solid Pipe black		NOCX Pipe white		Air Temperature outside	
	°C	°F	°C	°F	°C	°F
Pipe surface outside	61,0	141,8	39,0	102,2	30,0	86,0
Pipe surface inside	39,0	102,2	31,0	87,8		

Conclusion

The outside pipe surface results verify a big temperature difference between black and white colored pipes.

Following points can be concluded for NOCX pipes, white versus HDPE pipes, black because of lower pipe temperatures:

- Less material ageing do to heat
- Less formation of micro fissures
- Lower degradation of mechanical pipe properties
- Even higher UV stability of exposed NOCX pipes colored than the very good UV test results in artificial laboratory test equipment, because lab UV-tests use higher temperatures than the measured results.