

TEST 497 serial number: 01

cotton dyed with Reactive Orange 16

generally:

according:	Swissatest colour transfer monitors
suitable:	For assessing colour transfer within a washing process.
durability:	unlimited
storing conditions:	must be well packed and kept in the dark

specification of base material:

article 211	cotton fabric, percale, bleached, without optical brightener
thread count in cm	warp: 41 weft: 65
yarn count in Tex	warp: 100 weft: 100
weight in g/m²	90.0
width in cm	152.0
Y-value	92.1
Rem_{460nm}	88.9

specification of soiled fabric:

soiling	dyed with Reactive Orange 16 with a textile dyeing process dyestuff, reactive deystuff
weight in g/m²	182.0
width in cm	168.9
Y-value	25.1
Rem_{460nm}	9.9

measuring conditions:

instrument	DC800V (spectrophotometer)
illuminant / observer	D65 / 10°
measuring geometry	d/8°
wavelength range	420 to 750nm
filter	UV barrier at 420nm
measuring diameter	26 mm
gloss	excluded

Data sheet for article 497

Reactive Orange 16 on cotton

Serial: 01

Norm: ISO / EN 105-C06

washing colour fastness	A1S	A2S
Changing	4.3	4.4
staining on:		
Worsted wool	4.7	4.6
Polyacrylnitrile, type 75 spun	4.9	4.9
Polyester, type 54 spun	5.0	4.9
Polyamide, 6.6 spun	4.9	4.9
Bleached cotton	4.9	4.9
Acetate filament	4.9	4.9

washing colour fastness	C1S	C2S
Changing	4.0	4.1
staining on:		
Triacetate filament	4.7	4.8
Bleached cotton	4.5	4.6
Polyamide, 6.6 spun	4.8	4.8
Polyester, type 54 spun	4.8	4.9
Polyacrylnitrile, type 75 spun	4.8	4.8
Viscose spun type	4.5	4.7

Description of the washing colour fastness:

Norm: ISO / EN 105-C06
 A1S: 40°C, 30 min. 4 g/l ECE'77 detergent
 A2S: 40°C, 30 min. 4 g/l ECE'77 detergent
 1 g/l perborate
 C1S: 60°C, 30 min. 4 g/l ECE'77 detergent
 pH 10.5 with soda
 C2S: 60°C, 30 min. 4 g/l ECE'77 detergent
 1 g/l perborate
 pH 10.5 with soda

Norm: ISO / EN 105-C09

washing colour fastness	With 12g/l perborate
Changing	1.9

Description of the washing colour fastness:

Norm: ISO / EN 105-C09
 60°C, 30 min. 10 g/l EC'98 detergent
 1.8 g/l TEAD
 60°C, 30 min. 10 g/l ECE'98 detergent
 1.8 g/l TEAD
 12 g/l perborate

Dry and wet rub fastness:

dry: 3.6
 wet: 3.3

Measuring conditions:

Instrument: DC 800V (Spectrophotometer)
 Illuminant / observer: D65 / 10°
 Measuring geometry: d/8°
 Wavelength range: 420 to 750nm
 UV filter: UV barrier at 420nm
 Measuring diameter: 9 mm
 Gloss: excluded
 Measuring program: Sedo Treepoint, QTex 2.8.2.0