

**JAMES
CROPPER**

EST. 1845



TECHNICAL DATA

VANGUARD

TARGET MARKET

Graphic print

Leading range of smooth uncoated coloured papers for graphic print use.

32 colours available. Vanguard has a high opacity making it ideal as a medium for print. Produced using twin-wire process for an even-sided finish.

Suited to both traditional and digital print processes.

www.jamescropper.com/collection/vanguard



APPLICATIONS

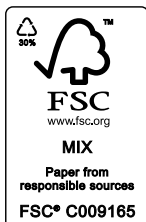
- Business Stationery
- Brochures
- Calendars
- Corporate Literature
- Greetings Cards
- Invitations
- Menus & Certificates
- Promotional Print

PRINT SUITABILITY

- Lithography
- Dry toner
- HP Indigo version available
- Silkscreen
- Flexography
- Relief Processes
- Letterpress
- Inkjet
- Die Cutting
- Laser Cutting
- Foil Blocking * **
- Drilling & Punching



CERTIFICATIONS



Fully Recyclable
& Biodegradable



Elemental
Chlorine Free



CHP Recycling
Energy



REACH
Compliant
(EC 1907/2006)

NOTE: * Black not suitable for metallic foiling ** Testing recommended



VANGUARD



COLOURS 32 shades available:

- Aqua
- Jade
- Black
- Lilac
- Blueberry
- Lime Green
- Bordeaux
- Maize
- Celestial Blue
- Marine Blue
- Cerise
- Navy Blue
- Cherry
- Orange
- Cobalt Blue
- Pink
- Cream Vellum
- Purple
- Daffodil
- Raspberry
- Dark Green
- Red
- Dark Grey
- Silver Grey
- Deep Blue
- Sunlight Yellow
- Emerald Green
- Tangerine
- Gold
- Violet
- Ivory
- White/HP Indigo



TECHNICAL DATA

| | | | | | | | | | | | | | |
|----------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| Colour: | Various | | | | | | | | | | | | Tolerance |
| Grammage g/m | 80 | 100 | 120 | 135 | | | | | | | | | ± 5% |
| Thickness Qm : | | | | | 200 | 230 | 280 | 300 | 380 | 430 | 580 | 750 | ± 5% |
| Bendtsen Roughness ml/min | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 350 | 500 | 800 | TARGET |
| Cobb (1 min) g/m | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | TARGET |
| | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | MAXIMUM |
| Dennison Wax Pick / Clear: | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | MINIMUM |
| Moisture %: | 6 | 6 | 6 | 6 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | | | NOMINAL |
| Rel. Humidity: | | | | | | | | | | | 50 | 50 | -10+15 |

FOR MORE INFORMATION, CALL OUR SALES TEAM: +44 (0)1539 818 240