# WestRock Crescendo<sup>®</sup> C1S If you're searching for visual impact, look no further.

Designed to meet the demanding needs of premium brands, WestRock Crescendo<sup>®</sup> C1S paperboard features high brightness, clean white styling and a smooth surface. All of which are hallmarks of exceptional visual impact. But this premium paperboard's appeal goes much deeper. Crescendo C1S owns a reputation for outstanding runnability, printability, and on-press consistency through converting.

#### **Packaging uses**

Beauty and Personal Care

Premium Food Packaging

Healthcare

Media and Electronics

Other Premium Packaging

## Product Classification

Solid Bleached Sulfate SBS Paperboard

GΖ

## What You Can Expect from Us

| Clean, White<br>Styling | This distinctive clean-white shade delivers crisp colors and sharp contrast while maintaining optimal color fidelity on press.  |
|-------------------------|---|
| Smooth Surface          | Crescendo's smooth surface delivers a visual aesthetic that denotes high quality.   |
| Quality Tactile Feel    | A unique fiber mix and finishing process results in high stiffness.<br>So, you can expect a finished package that feels as good as it looks.  |
| Superior<br>Runnability | You can expect outstanding product uniformity and consistent graphics.<br>Both of which help you optimize productivity and reduce waste.  |
| Fade Resistance         | Paper shade is achieved using bleached fiber and color-fast dyes to provide improved color integrity and extended packaging shelf life.   |
| Caliper Range           | Broad caliper offerings for use across a wide range of printing and packaging applications.   |
| Additional Product      | Information   |
| Sustainability          | Recyclable.<br>All WestRock North American paperboard mills are certified to the<br>SFI®, PEFC™, FSC™ Chain of Custody Standards. Contact your WestRock   |
|                         | sales representative for certified fiber availability for this product.   |
| Food Contact            |   |
| Food Contact<br>Quality | sales representative for certified fiber availability for this product.<br>Meets multiple national requirements for food contact packaging, e.g.,<br>US, Canada, Germany and the EU. Contact your sales representative for<br>information on specific markets and end uses.<br>ISEGA Certificate available. |

Meets heavy metal limits of the US Model Toxics in Packaging rules and

Article 11 of EU Directive 94/62/EC.



## **Grade Availability & Typical Properties (U.S.)**

| Grade Availability & Typical Properties (U.S.) Crescendo <sup>®</sup> C1 |    |       |      |      |       |       |      |       |       | Crescendo <sup>®</sup> C1S |                  |                  |
|--|----|-------|------|------|-------|-------|------|-------|-------|----------------------------|------------------|------------------|
| Grade Availability by Caliper  |    |       |      |      |       |       |      |       |       |                            | Units            | Method           |
| Caliper (pts)  |    | .0085 | .010 | .012 | .0136 | .0148 | .016 | .0178 | .0194 | .0235                      | inches           | T-411            |
| Nominal Basis Weight   |    | 112   | 124  | 145  | 163   | 172   | 182  | 199   | 212   | 250                        | lbs/3000 sq ft   | T-410            |
| Moisture   |    | 5.3   | 5.3  | 5.3  | 5.3   | 5.3   | 5.3  | 5.3   | 5.3   | 5.3                        | percent          | T-412            |
| Internal Bond  |    | 105   | 80   | 70   | 70    | 70    | 70   | 70    | 70    | 70                         | .001 ft-Ib/sq in | T-569            |
| Stiffness  |    |       |      |      |       |       |      |       |       |                            |                  |                  |
| Taber 15°  | MD | 32    | 55   | 85   | 112   | 142   | 174  | 217   | 269   | 430                        | gf-cm            | ISO2493          |
|  | CD | 15    | 26   | 45   | 56    | 70    | 86   | 112   | 136   | 230                        | gf-cm            | ISO2493          |
| Coated Side  |    |       |      |      |       |       |      |       |       |                            |                  |                  |
| Parker Print   |    | 1.0   | 1.0  | 1.0  | 1.0   | 1.0   | 1.0  | 1.0   | 1.0   | 1.0                        | μm               | ISO8791          |
| ISO Brightness   |    | 91    | 91   | 91   | 91    | 91    | 91   | 91    | 91    | 91                         | percent          | ISO2470          |
| <b>GE Brightness</b>   |    | 92    | 92   | 92   | 92    | 92    | 92   | 92    | 92    | 92                         | percent          | T-452            |
| <b>CIE Whiteness</b>   |    | 122   | 122  | 122  | 122   | 122   | 122  | 122   | 122   | 122                        | percent          | ISO11475         |
| Color  |    |       |      |      |       |       |      |       |       |                            |                  |                  |
|  | L* | 94.5  | 94.5 | 94.5 | 94.5  | 94.5  | 94.5 | 94.5  | 94.5  | 94.5                       | L*               | CIELAB SCAN-P 72 |
| CIE  | a* | 1.9   | 1.9  | 1.9  | 1.9   | 1.9   | 1.9  | 1.9   | 1.9   | 1.9                        | a*               | CIELAB SCAN-P 72 |
|  | b* | -8.0  | -8.0 | -8.0 | -8.0  | -8.0  | -8.0 | -8.0  | -8.0  | -8.0                       | b*               | CIELAB SCAN-P 72 |

### **Grade Availability & Typical Properties (Metric)**

| Grade Availability by Weight |    |      |      |      |      |      |      |      |      |      | Units            | Method           |
|------------------------------|----|------|------|------|------|------|------|------|------|------|------------------|------------------|
| Thickness                    |    | 216  | 254  | 305  | 345  | 376  | 406  | 452  | 493  | 596  | microns          | T-411            |
| Nominal Basis Weight         |    | 182  | 202  | 236  | 265  | 280  | 296  | 324  | 345  | 407  | gsm              | T-410            |
| Moisture                     |    | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | percent          | T-412            |
| Internal Bond                |    | 221  | 168  | 147  | 147  | 147  | 147  | 147  | 147  | 147  | J/m <sup>2</sup> | T-569            |
| Stiffness                    |    |      |      |      |      |      |      |      |      |      |                  |                  |
| Taber 15°                    | MD | 3.1  | 5.4  | 8.3  | 11.0 | 13.9 | 17.1 | 21.6 | 26.4 | 42.2 | mNm              | ISO2493          |
|                              | CD | 1.5  | 2.5  | 4.4  | 5.5  | 6.9  | 8.4  | 11.0 | 13.3 | 22.6 | mNm              | ISO2493          |
| L&W 15°                      | MD | 56   | 110  | 180  | 244  | 315  | 390  | 498  | 614  | 993  | mN               | ISO2493          |
|                              | CD | 22   | 46   | 94   | 120  | 153  | 191  | 252  | 309  | 532  | mN               | ISO2493          |
| L&W 5°                       | MD | 4.7  | 9.3  | 15.3 | 20.7 | 26.8 | 33.2 | 42.4 | 52.2 | 84.4 | mN               | ISO5628          |
|                              | CD | 1.9  | 3.9  | 8    | 10.2 | 13   | 16.2 | 21.5 | 26.3 | 45.3 | mN               | ISO5628          |
| Coated Side                  |    |      |      |      |      |      |      |      |      |      |                  |                  |
| Parker Print                 |    | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | μm               | ISO8791          |
| ISO Brightness               |    | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | percent          | ISO2470          |
| <b>GE Brightness</b>         |    | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | percent          | T-452            |
| <b>CIE Whiteness</b>         |    | 122  | 122  | 122  | 122  | 122  | 122  | 122  | 122  | 122  | percent          | ISO11475         |
| Color                        |    |      |      |      |      |      |      |      |      |      |                  |                  |
| CIE                          | L* | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | L*               | CIELAB SCAN-P 72 |
|                              | a* | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  | a*               | CIELAB SCAN-P 72 |
|                              | b* | -8.0 | -8.0 | -8.0 | -8.0 | -8.0 | -8.0 | -8.0 | -8.0 | -8.0 | b*               | CIELAB SCAN-P 72 |

Values are subject to change without notice.

For more information, please contact your WestRock representative or visit our website at westrock.com.

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