PRODUCT INFORMATION BULLETIN гош CUR **EPIC[™] RIO COLOR MATCHING RECOMMENDED PARAMETERS** WILFLEX™ Epic Rio is a low cure non-phthalate finished ink mixing system formulated for a perfect balance of color accuracy and opacity for peak press performance and color design. It is an easy-touse color mixing system with 18 intermixable colors that enable printers to produce accurate **Fabric Types** PANTONE® simulations. EPIC RIO is the most opaque color system in the line of Wilflex mixing 100% cotton, 100% polyester, color systems. Its opacity helps printers get to color guicker even when using fine mesh screens, triblends, polyester blends, cotton/poly saving ink and money. blends, cotton/lycra blends **HIGHLIGHTS** Accurate and vibrant color match. Mesh Easy and accurate color mixing with PANTONE® approved finished inks that are balanced for viscosity Count: 110-305 t/in (43-120 t/cm) Tension: 25-35 n/cm2 **W** Excellent color reproduction over base Wet-on-wet printing at high production plates and white, light garments speeds with good resistance to build-up Squeegee W Best color fastness to crocking test Matte finish Durometer: 60/90/60, 70/90/70, 60-90 Profile: Square, Sharp Stroke: Medium flood, **PRINTING TIPS** Medium-Fast stroke Angle: 10-15% V Use consistent, high-tensioned screen mesh and sharp edged squeegees for best print results Stencil When blended according to formulations, colors are vibrant, accurate and opague allowing printers to achieve color easier over a range of grounds and mesh counts 2 over 2 Off Contact: 1/16" (.2cm) V Excellent color reproduction using 160-305 t/in (62-120 t/cm) mesh on white, light garments and Emulsion Over Mesh: 15-20% over a base plate. Use finer mesh and save ink without sacrificing color accuracy. When direct printing over dark garments, print-flash-print using soft squeegee and lower mesh count Flash & Cure RIO Mixing Colors is not a low-bleed ink; when printing on fabrics that are prone to bleed Flash: 220°F (105°C) underbase with an approved WILFLEX low bleed white and/or blocker Cure: 260°F - 280°F (127°C - 138°C) Entire ink film Exhibits good color retention in high-speed wet-on-wet production with minimal build up. Use fine mesh for best wet-on-wet printing V Adjust flash cure temperature and dwell time so ink is just dry to touch. Depending on flash unit, **Pigment Loading** a 2 - 3 second flash is adequate Curing is a time and temperature process, a lower oven temperature setting with a slower belt speed while maintaining recommended ink cure temperature is always best to protect fabric, control dye migration and reduce energy consumption RIO Colors can be cured between 260°F - 320°F (127°C - 160°C) Wilflex[™] Additives Epic Viscosity Buster-1% max Use Epic Finesse to extend the ink for blending colors in halftones or when garment colors allow Epic Finesse Base ink opacity to be decreased. Suitable for use at 270°F (132°C) For cold-peel transfers, use a coated release paper or polyester film. Print colors using 70 duro squeegee and 110-230 t/in (43-91 t/cm) mesh followed by powdering. Gel at 212°F (100°C) for 60 sec. Apply transfer with heat press at 300°F (150°C) for 10-12 sec at medium pressure. For Storage transfers on polyester, back with a low bleed white and/or blocker. Verify process. 65-90°F (18-32°C) Avoid direct sunlight COMPLIANCE Use within one year of receipt Non-phthalate V For individual compliance certifications and conformity statements, please visit: **Clean Up** www.avient.com/wilflex-compliance Ink degradant or press wash PRECAUTIONS The information above is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications **Health & Safety** Find SDS information here: AVIENT SPECIALTY www.avient.com/resources/safety-data-sheets V3.01 (Modified: 04/22/2021) or contact your local CSR INKS 2021, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. 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