Wilflex Epic vs Rio vs Rival Sport

Side by side, from Avient's own Wilflex Product Selection Guide: cure, mesh, fabrics, opacity, hand and bleed resistance.

	Epic (MX Color Mixing System)	Rio RFU colors	Rival Sport colors
Cure type	Standard cure	Flexible cure	Flexible cure
Colors	15 intermixable colorants and a base	32 ready-for-use colors	22 colors
Cure temperature	320F (160C)	266F-320F (130C-160C)	250F-300F (121C-148C)
Flash	220F (105C)	180F (83C)	180F (83C)
Mesh	110-305	110-305	86-230
Cotton	Yes	Yes	No
Cotton/poly blends	Yes	Yes	Yes
100% polyester	No	Yes (cure 270F and pre-test for bleed)	Yes
Untreated nylon, nonwoven polypropylene bags	No	No	Yes (pre-test nylon)
Opacity	Good	Best	Better
Hand	Best	Best	Good
Wet-on-wet	Best	Better	Not recommended
Bleed resistance	N/A	N/A (print over an underbase white)	Best
Matching white	Epic Quick White (300F), Tiger White (300F), Athletic Poly White (320F)	Epic Quick White or Athletic Poly White underbase	Rival Sport LC White (250F-300F, 86-160)
Matching black	Epic Matte Black (standard cure, 86-305)	Rio RFU Black Diamond (266F-320F)	Rival Sport Black (250F-300F)

Ratings (Best, Better, Good) are Avient's own ratings in its Wilflex Product Selection Guide (2026). Rio RFU colors are used on manual and automatic presses. Rival Sport colors are low bleed and flexible cure for printing directly onto dark fabric or over an underbase.

Sources: Avient/Wilflex technical data sheets and Product Selection Guide (2026), Avient QCM PERM170 and XOLB142 product information bulletins, WM Plastics Ink Tech Catalog (NP v42). Temperatures in degrees Fahrenheit. Reference only: the maker's current TDS governs. Every data sheet: bucketsofink.com/page/safety-data-sheets.