

# **Spun-dyed filament yarns**

Solutions and technologies for POY, FDY, BCF and industrial yarns



# Why spun-dying?

## Key benefits

**Spun-dyed yarns are in demand above all when the end-product needs to be colorfast and lightfast. Spun-dyed yarns are standard particularly in the demanding automobile industry. And as an added bonus, they are ecological, too. This makes them increasingly interesting for the whole apparel product range.**

### Uniform dyeing result

Master batch dyeing results are more uniform. This is why spun-dyed yarns are standard in the particularly demanding automobile industry. One disadvantage: the flexibility in terms of color diversity is more limited than for piece dyeing. Yet we have solutions here, too: with the help of additive injection and mixing systems, master batches and additives can be introduced into the melt path at various points between the reactor and the spinning positions. Thus, the variety of yarn to be simultaneously manufactured can be increased dramatically, and small production batches become economical.

### Cost efficient

Thanks to the integration of dyeing into the spinning process, you save a complete downstream process step. This saves time and money.

### Clean solution

Energy efficiency and CO<sup>2</sup> balance are important factors in the spinning process of dyed filament yarns: piece dyeing uses approximately 30 times as much power as a dyeing process with master batch and also emits approx. 30 times more CO<sup>2</sup>. Moreover, the spin dying process does not use any water, so does not produce any waste water.

### The right equipment

There is a large range of spun-dyed yarns: polyester or polyamide, standard yarns or microfiber yarns, POY, FDY, industrial yarn or BCF. Tell us what you would like to produce – we will provide the right technology.



Microfiber color options with EvoQuench: the specially designed EvoQuench now makes the production of spun-dyed POY and FDY microfiber yarns possible.

Gravimetric dosing with extruders, feed systems such as Promix, Inject AC or 3DD mixers are only a few of all the solutions for manufacturing spun-dyed yarn. Your key account will be happy to explain the right equipment for your product. For every solution is individual. **Contact us at: [sales.barmag@oerlikon.com](mailto:sales.barmag@oerlikon.com)**

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