

How to Dye Nylon/Cellulosic Blends Using Acid & Direct Dyes in a One-Bath/One-Step Process

This procedure is sometimes used when a union dyeing (fibers are same shade) is desired. **Orcolan Neutral™** dyes are recommended for the nylon as they are applied at a pH near neutral. If the substrate being processed is rayon, do not exceed a pH of 9 as it will cause saponification of the fiber.

1. Prepare goods as necessary.
2. In a bath at 105°F(41°C), add:
 - 1.0 % owg **Orconol CHSA Conc™**
 - X % owg **Orco Nylon Resist P™** as necessary
3. Set pH to 9 using ammonium hydroxide and run for 10 minutes.
4. Add **Orco™** Acid dye properly prepared
5. Circulate for 5 minutes.
6. Add **Orco™** Direct dye properly prepared
7. Circulate for 5 minutes.
8. Add 20 % owg Common or Glauber's salt and raise temperature to 160°F(71°C) over 20 minutes.
9. Adjust pH to 6.0-6.5 and increase temperature to 200°F(93°C) over 30 minutes and continue for one hour.
10. Drop bath and rinse well.
11. Finish goods as necessary.