Thankfully, there are a couple of ways to prevent your whites from turning yellow: 1 Never bleach white clothing that is polyester or a polyester/cotton blend. 2 The chemical reaction between the bleach and the polyester almost always yields a yellowed result. 3 Consider a water softener if you have well-water.hankfully, there are a couple of ways to prevent your whites from turning yellow: 1 Never bleach white clothing that is polyester or a polyester/cotton blend. 2 Consider a water softener if you have well-water. 3 Minimize your use of bleach altogether.