

# Tri-Star Glove

High Performance Gloves & Personal Protective Products

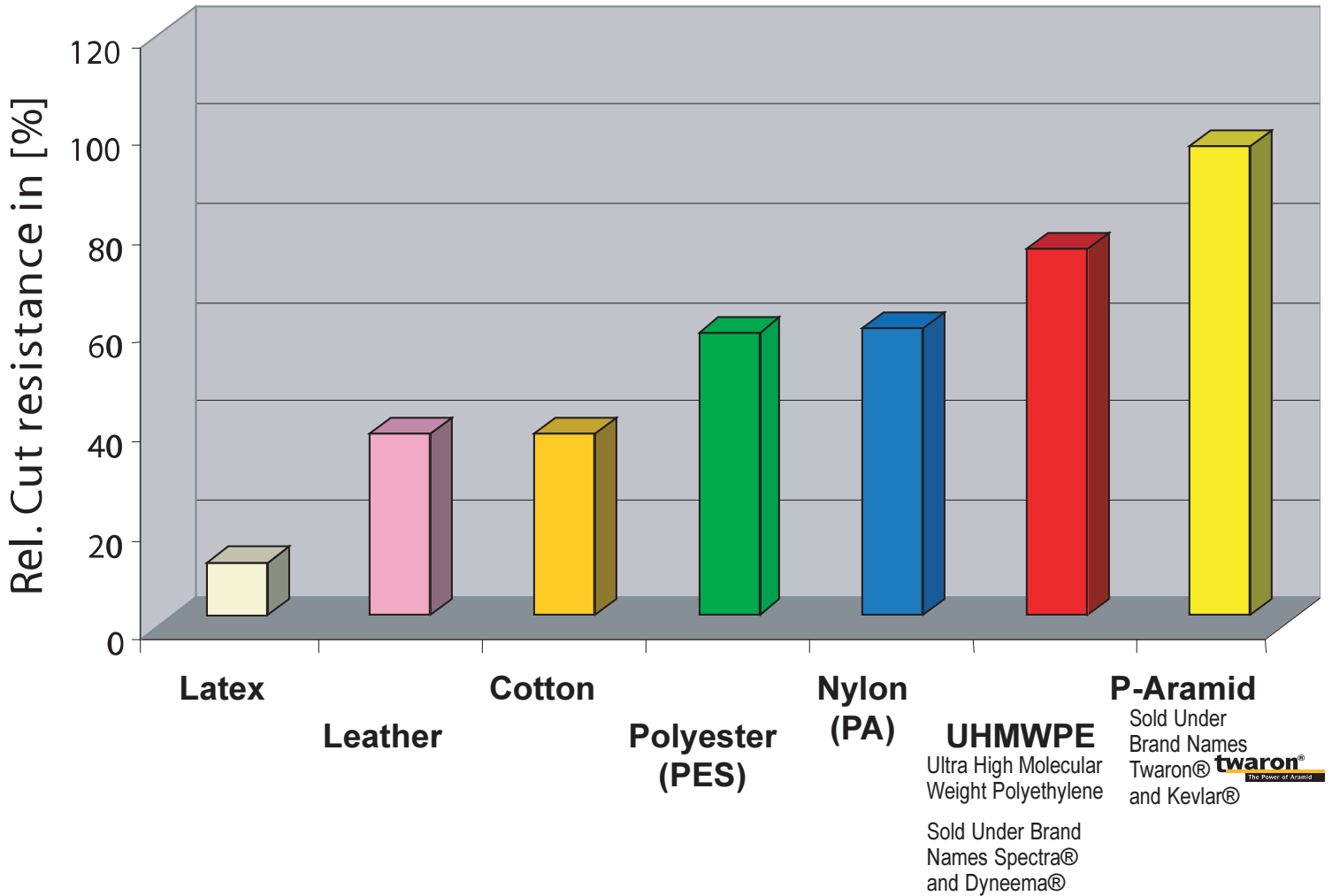


Figure 1: Comparative evaluation of the cut protective performance.

In today's protective glove market a variety of different materials is used. All these materials offer different levels of protection against cuts. Below graph compares the cut resistance of medium-heavy weight gloves with a weight of approximately 450 g/m<sup>2</sup> according to the American cut resistance standard F1790 - 97 standard. To simplify the graph no hybrid yarns have been included. The highest performance level is found for para-Aramid. Compared to para-Aramid offers UHMWPE (ultra-high molecular weight polyethylene) a 20% lower cut resistance. Gloves made of Polyamide and Polyester are having a relative cut resistance of 50%, while leather and cotton gloves offer only 30% relative cut resistance compared to para-Aramid. Further several hybrid yarns have been developed.