DuPont™ Elvaloy® AC brings property enhancement to a variety of polymers and polymer blends such as:

- Nylon/polyamide (PA)
- Polybutylene terephthalate (PBT)
- Polyethylene terephthalate (PET)
- Acrylonitrile butadiene styrene (ABS)
- Polypropylene (PP)
- Polyethylene (PE)
- PBT/ABS blends
- ABS/polycarbonate (PC) blends

**Elvaloy® AC has Broader Compatibility with Polar and Non-Polar Resins**

DuPont™ Elvaloy® AC has, due to its very special manufacturing process, a much more heterogeneous molecular architecture which provides a significant compatibility enhancement with almost all other polymers in blends and mixtures. For this reason, Elvaloy® AC is the ideal carrier for masterbatch products. As an example, the TEM micrographs in Figures 1 and 2 show the compatibility of polybutylene terephthalate (PBT) with Elvaloy® AC and a competitive ethylene-methyl acrylate copolymer resin (produced under a different manufacturing process).

![Figure 1: TEM Image of PBT/T-EMA (MA, 24% (80/20%)](image1)

![Figure 2: TEM Image of PBT/A-EMA (MA, 24% (80/20%)](image2)
**Elvaloy® AC has Superior Thermal Stability**

TGA Curves for Selected Ethylene Copolymers in Nitrogen

**Elvaloy® AC has Good Filler Dispersion**

**Improved Impact Performance**

Nylon-6 with addition of 5 wt% TiO2 masterbatch based on PE vs. Elvaloy® 1820AC:

Elvaloy® AC improves impact resistance of other polymers as well:
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