Nylon polymers are sometimes blended with lower-cost thermoplastic polyolefins to reduce costs, improve processability, and reduce moisture absorption. Such alloys can be produced without drastically reducing the mechanical properties if adequate compatibilization is obtained. Maleated polypropylenes have been shown to function well as superior compatibilizers for nylon-PP alloys. In nylon-rich nylon 6/6-PP blends, Eastman G-3003 polymer (low maleic level) performs well as a compatibilizer.

Eastman G-3003 polymer is available in 50 lb (22.7 kg) bags or 1,000 lb (453.6 kg) boxes. Bulk bag packaging is available on a made-to-order basis.

Physical data for nylon/PP blends

![Tensile strength of 90:10 nylon 6/6-PP blends](image1)

- **Tensile strength of 90:10 nylon 6-PP blends**
  - 0% Eastman G-3003 compatibilizer: 46 MPa
  - 0.5% Eastman G-3003 compatibilizer: 81 MPa
  - 1% Eastman G-3003 compatibilizer: 79 MPa
  - 2% Eastman G-3003 compatibilizer: 79 MPa

- **Flexural modulus of 90:10 nylon 6/6-PP blends**
  - 0% Eastman G-3003 compatibilizer: 1.4 MPa
  - 0.5% Eastman G-3003 compatibilizer: 1.47 MPa
  - 1% Eastman G-3003 compatibilizer: 1.49 MPa
  - 2% Eastman G-3003 compatibilizer: 1.49 MPa

![Flexural modulus of 90:10 nylon 6-PP blends](image2)

- **Flexural modulus of 90:10 nylon 6-PP blends**
  - 0% Eastman G-3003 compatibilizer: 1.3 MPa
  - 0.5% Eastman G-3003 compatibilizer: 1.37 MPa
  - 1% Eastman G-3003 compatibilizer: 1.4 MPa
  - 2% Eastman G-3003 compatibilizer: 1.4 MPa

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