Eastman G™ maleated polyolefins
The superior coupling additive for talc reinforcement

Eastman G-3003 is a maleic-grafted polypropylene with optimum functionality and molecular weight developed to compatibilize talc and polypropylene. Addition of a small percentage of G-3003 (1%–5%) results in a dramatic increase in tensile strength and other physical properties of talc-reinforced polypropylene composites.

The product can be added to the composite to aid not only in strengthening the composite but also for composite processability.

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 20% talc/PP composites

- **Tensile strength**
  - % Eastman G-3003 coupler
  - 0%: 26 MPa
  - 1%: 31 MPa
  - 3%: 34 MPa
  - 5%: 35 MPa

- **Unnotched Izod impact, 23°C**
  - % Eastman G-3003 coupler
  - 0%: 455 J/m
  - 1%: 477 J/m
  - 3%: 566 J/m
  - 5%: 582 J/m

- **Vicat softening point**
  - % Eastman G-3003 coupler
  - 0%: 154 °C
  - 1%: 155 °C
  - 3%: 157 °C
  - 5%: 157 °C

- **Flow rate**
  - % Eastman G-3003 coupler
  - 0%: 10.5 g/10 min
  - 1%: 11.4 g/10 min
  - 3%: 11.9 g/10 min
  - 5%: 12.2 g/10 min

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