

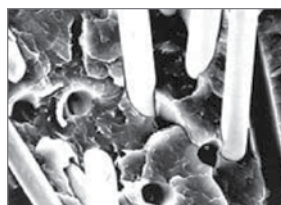
Eastman G™ maleated polyolefins

The superior coupling additive for fiberglass reinforcement

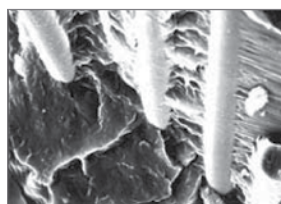
Eastman G-3003 is a maleic-grafted polypropylene with optimum functionality and molecular weight developed to compatibilize glass fibers and polypropylene. Addition of a small percentage of Eastman G-3003 polymer (0.5%–5%) results in a dramatic increase in tensile strength and other physical properties of fiberglass-reinforced polypropylene composites.

The product can be added to the composite to aid not only in strengthening the composite but also to improve composite processability. Incorporating Eastman G-3003 polymer in glass-reinforced polypropylene composites is a cost-effective alternative to various reinforced engineering plastics used in the automotive and appliance industries.

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.

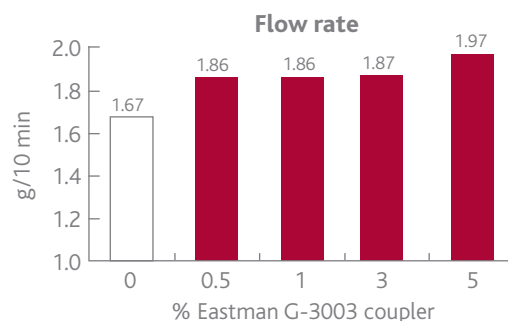
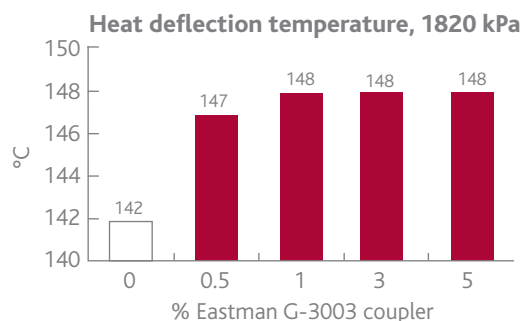
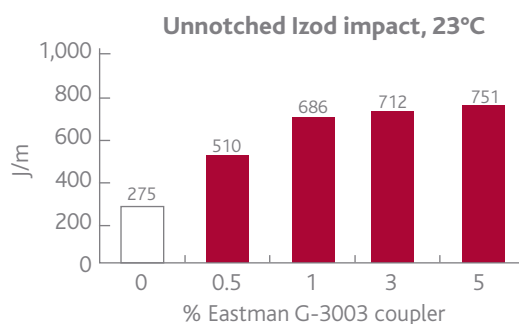
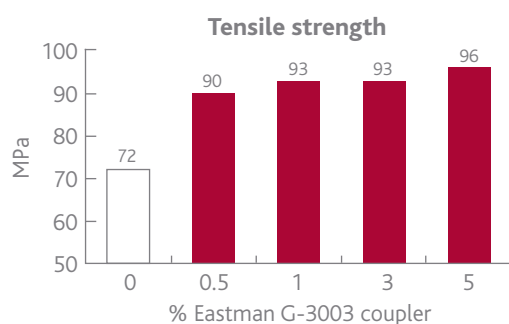


30% fiberglass/PP



30% fiberglass/PP/G-3003

Physical data for 30% fiberglass-reinforced polypropylene



□ Control ■ Eastman G-3003 coupler

Physical data for 30% fiberglass-reinforced polypropylene containing Eastman G-3003 vs. various reinforced engineering thermoplastics

| Property | PP with no coupler ^a | PP with G-3003 coupler | Acetal ^a | ABS ^a | Polycarbonate ^a | Nylon 6/6 ^a |
|--|---------------------------------|------------------------|---------------------|------------------|----------------------------|------------------------|
| Glass content, % | 30 | 30 | 30 | 20 | 30 | 30 |
| Tensile strength, MPa | 69 | 93 | 62 | 110 | 131 | 193 |
| Impact—notched Izod, J/m | 53 | 107 | 53 | 69 | 160 | 214 |
| Impact—unnotched Izod, J/m | 214 | 694 | — | 267 | — | 641 |
| Heat deflection temperature, °C @ 1820 kPa | 142 | 148 | 156 | 110 | 149 | 255 |

^aInformation taken from Modern Plastics Encyclopedia '95.

Eastman G™ polymers are products of Eastman and are protected under one or more of the following U.S. patents: 5,955,547; 6,046,279; 7,408,007; 7,683,134; and their foreign equivalents.



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