

# Glass Fiber Reinforced Polypropylene (GFPP)



PRIME POLYMER

GFPP is a composite material obtained by melting and kneading glass fiber and polypropylene resin. The excellent properties of polypropylene resin and the strength and heat resistance of glass fibers are combined and used in a variety of structural and heat-resistant components.

## ◆ GFPP of Prime Polypro

Mostron(long fiber GFPP)

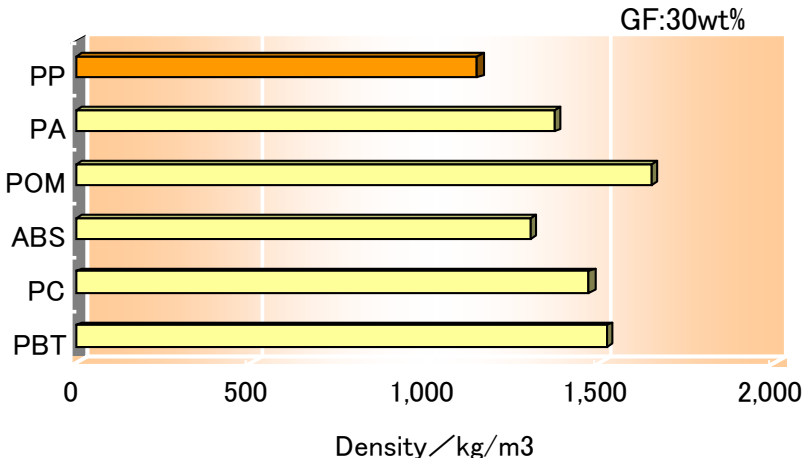
GF Length 6~12mm

Prime Polypro (short fiber GFPP)

GF Length <1mm

\*Fiber length in pellets

## ◆ lightweight



## ◆ Excellent chemical resistance

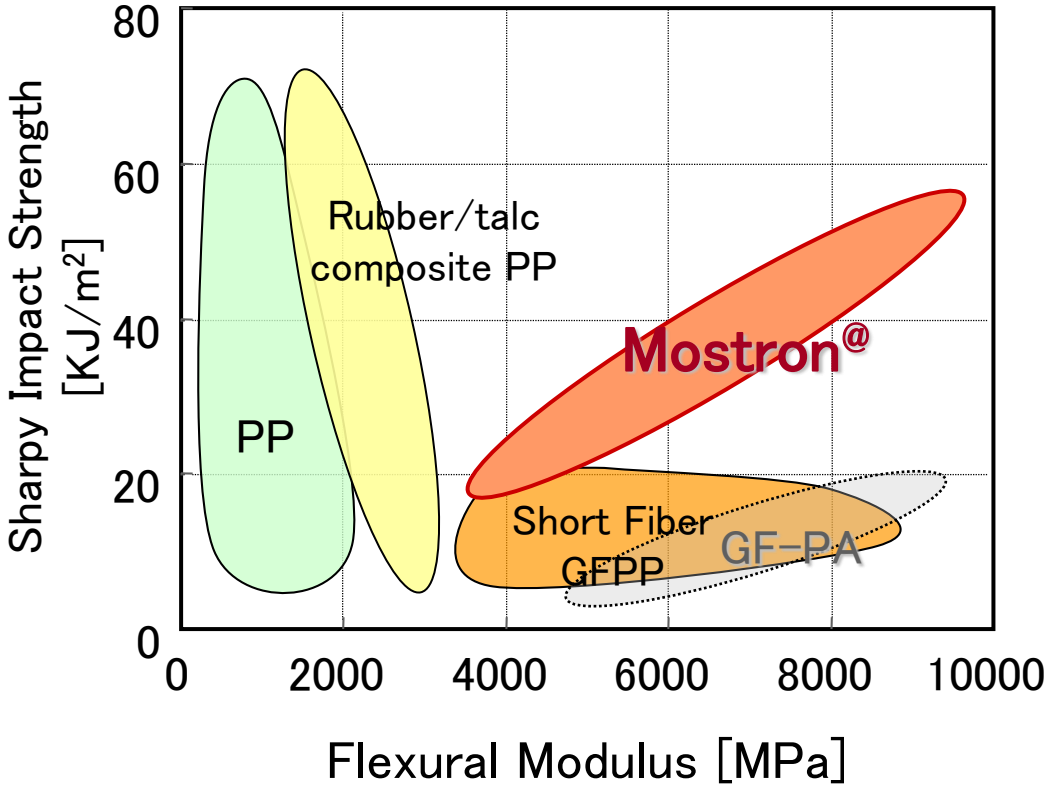
	acid	alkali	Oil
<b>PP</b>	◎	◎	○
PA	○	△	○
POM	△	△	○
PC	◎	○	△
ABS	◎	◎	△

◎ : Safe ○ : Almost safe △ : Partially Dangerous  
no-load condition

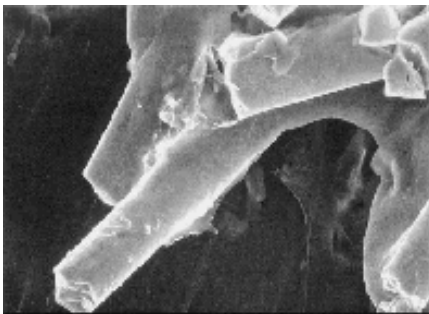
# Physical properties of Mostron@.



PRIME POLYMER



Mostron@ is a high-performance long-fiber glass-reinforced polypropylene resin developed by our company. Each continuous fiber bundle of several thousand glass filaments with diameters of several tens of microns is uniformly impregnated with polypropylene, drawn into strands, and pelletized to the required length.



Mostron@ uses a proprietary process to enhance adhesion at the GF interface, resulting in excellent physical properties.

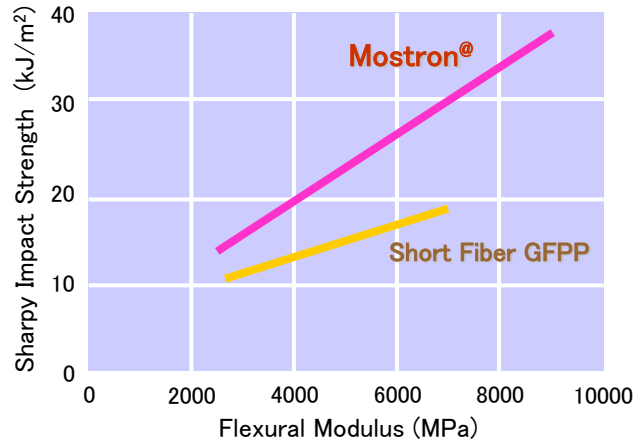
# Effects of long fibers



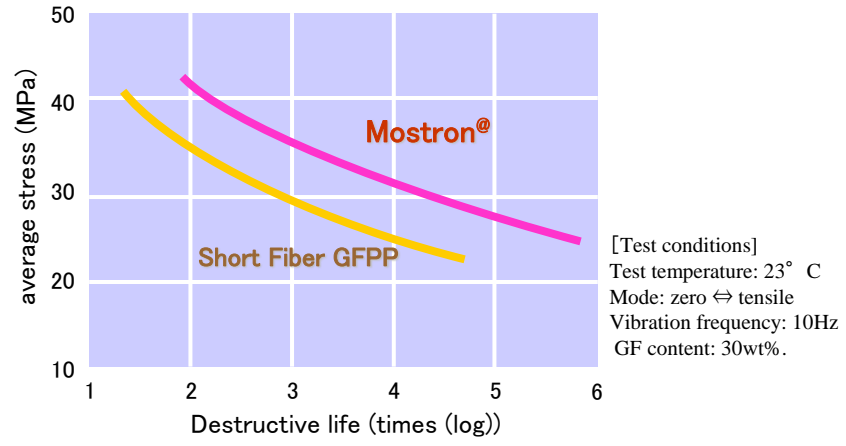
PRIME POLYMER

Lengthening glass fibers significantly improves various physical properties.

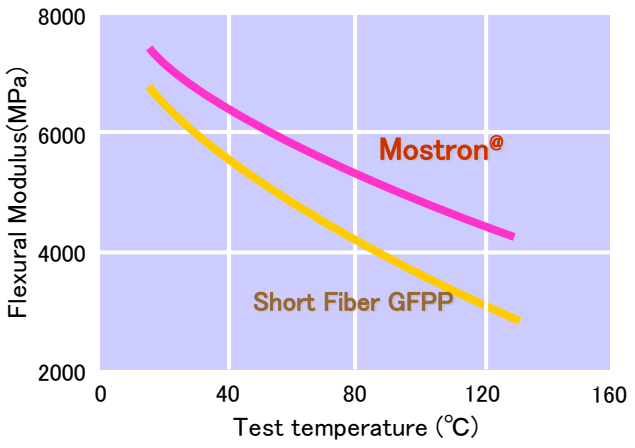
## Improved impact resistance



## Improved vibration fatigue characteristics



## Improved high-temperature rigidity



## Improved creep properties

