Noncircular Cross-Sectional Glass Fiber (Chopped Strands)

Noncircular cross-sectional glass fiber is a high performance glass developed through proprietary technology. Compared to the circular cross section of regular fiber, these fibers have cross sections that are cocoon-shaped (HIS) and flat-shaped (FF). With these noncircular cross sections, they display numerous outstanding characteristics when used for injection molding.

Circular cross-sectional fiber

Cocoon-shaped (HIS) fiber

Flat-shaped (FF) fiber

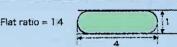












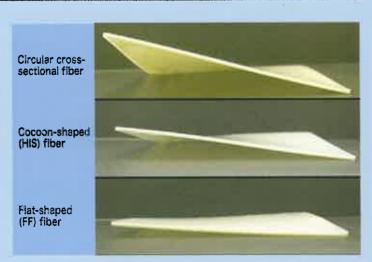
Characteristic (1)	High Flow	Has outstanding fluidity, ideal for complex or thin-wall molds. High content of glass fiber is possible.
Characteristic (2)	High Strength	Improved impact resistance due to the fact that the fibers remain in the molded product longer
Cheracteristic (3)	Impact Resistance	Improved impact resistance due to the fact that it easily absorbs energy
Characteristic (4)	Fine Surface Smoothness	Molded products with highly smooth surfaces are possible since the the glass fibers do not rise above the surface.
Characteristic (5)	Dimensional Stability	Low anisotropic shrinkage ratio of molded products which has an outstanding effect on reducing warping and twisting of the molded product.

[Product name]

- Cocoon-shaped (HIS) chopped strands: CSH CSH 3PA-850, CSH 3PA-860
- Flat-shaped (FF) chopped strands: CSG CSG 3PA-820, CSG 3PA-830

[Applications]

Automobile parts, electronic equipment components



Difference in the level of warping in compound panels that use deformed cross-sectional glass fiber GF content 40wt% (Resin PBT)