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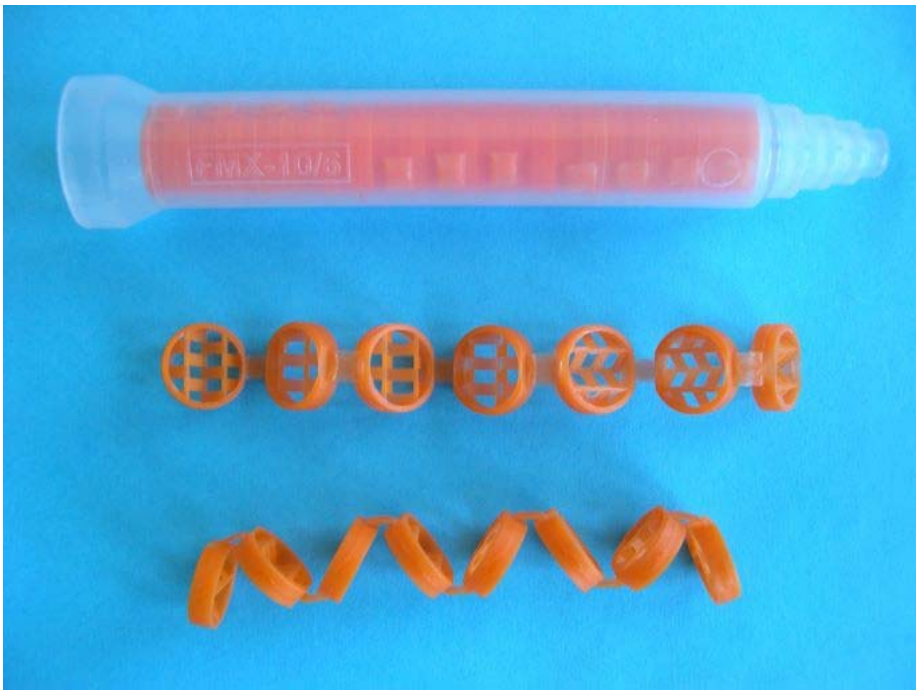
New Plastic Disposable GXF Static Mixer

For difficult Mixing and Dispersion Meter/Mix/Dispense Applications



The new GXF static mixer (patent pending) is a modestly priced disposable plastic static mixing unit suitable for difficult mixing requirements in meter/mix/dispense applications. It allows for difficult mixing tasks to be performed in a much shorter length as compared to traditional round helical and square static mixing units. In addition, the new GXF static mixer allows what were previously considered to be impossible high-low viscosity mixing applications to now become possible because the mixing grid structure eliminates bypassing/wall effects and forces incorporation of the low and high viscosity materials.

The GXF static mixer assembly is economically manufactured by means of a simple injection molding tool. After injection molding, the static mixer assembly is folded together and inserted into a plastic housing with standard Bell Connection and Stepped Outlet Tip.

The GXF static mixer consists of inclining crossing bars. It is an innovative method of manufacturing in plastic construction and at modest cost the well-known Type GX static mixer geometry (GX is the designation of StaMixCo Technology Ltd. for a mixer structure with crossing inclined bars). This mixer geometry originally was invented by Bayer AG (BKM Mixer). It has successfully been used for the past 30 years to solve difficult mixing / dispersing tasks in the laminar flow regime and was available only in expensive metal construction.

The Type GX static mixer structure has proven to be suitable and successful over decades of use for most difficult mixing / dispersion applications of high-viscosity materials, materials with large differences in viscosity and volumetric ratio and for the mixing of low-to-medium viscosity materials.

GXF mixers are presently available in 10 mm inside diameter sizes (see above photograph) with housing lengths to accommodate 6, 9 and 12 mixing elements.