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Micro Molding â€" Where small is beautiful by James Blee

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In todayâ€™s age when everything is growing smaller in size, the word micro is beautiful. Starting from computers to music players, from Swiss watch parts to the parts of the latest medical instruments, things are growing so smaller in size that these constituent parts need moulds to be manufactured â€" thus, micro molding.

Size does matter â€" or does it?

Simply put, micro molding refers to producing high precision, plastic micro parts that weigh less than a gram. However micro molding is not only about producing small parts but producing millions of them with precision..

â€¢ Insert / Lead Frame Molding: Extremely popular in the semi-conductor or micro-electronics industry, this involves molding micro parts on a very small insert and requires extreme precision and consistency. The scope of this includes non-metallic parts as well such as plastics, fabrics, ceramics, glass and the like.

â€¢ 2-Shot Micro Molding: This refers to molding two different types of materials at the same time on the same place. Thus, it requires only one mold cycle and two thermoplastic substances are shot in sync.

Micro molding and Micro Optics:

This is undoubtedly the age of micro optics and needless to say that this field goes hand in hand with that of micro molding. Starting from the lens-arrays of the high bandwidth data market, micro sensor applications to endoscopic surgical tools

Packaging and Quality:

Both quality assurance and packaging are important facets of micromolding. Firstly, quality standards are imperative for maintaining the precision and consistency. In case of packaging, it can be said that only producing small parts are useless..

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