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Micro mold techniques are popular at the moment with people constantly looking for miniaturization.. Micromold is one great way of manufacturing that. A great example is provided by thin and small covers for gadgets. One of the areas where micro molding is extremely important is in medical industry, where precision instruments are extremely narrow, thin or small. Valves and screws in the automobile industry are also manufactured through injection molding, where the required size is sometimes smaller than a diameter of 1cm.

There are high flow materials available now which can make used of micro molded parts with physical characteristics that allow the manufacture of small size instruments. There are also thermally efficient plastic like materials which are lightweight and are used in a variety of industries. High pressure and high temperature resistant parts, small multi tip nozzles and needle clips are all examples of how small is big these days, laying so much emphasis in the micro molding injection techniques. Electronic appliances in particular make great use of the ultra small parts for different functionalities, making things more compact than what they have been.

The best part about the micro molded parts is that they are fabricated easily through mass production and are tough and resilient too. Whether it is sequence controllers or temperature control, all use minute designed and manufactured using micro molding techniques. There are parts which weight less than 1 gram for precision control instruments which are manufactured through micro molding. Bio-absorbable materials like implants and custom medical devices are also produced using these injection techniques which are capable of producing close tolerance and high degree of reliability in these parts. Automotive accessories and the semi conductor industry are particularly dependent on micro parts for a variety of instruments and devices.

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