KAMAN APPLICATION NOTE

Plastic Injection Molding Wall Thickness

GOAL

Measure the wall thickness of a plastic part as it is being molded.

Keep the wall thickness (or part dimension) uniform.

Minimize the plastic used to avoid excess waste.

Make measurements in a harsh environment.

SOLUTIONS

KD-2306
KDM-8206

The sensor is embedded and sealed into the outer mold (see Figure 1). To determine thickness, the sensor measures the gap between the mold and the core for comparison with the finished part specification. The KD-2306 and KDM-8206 digital signal conditioners captures thickness data on every part, providing 100% quality control.

Result: Optimal wall thickness is attained and defective parts are identified.

THE KAMAN ADVANTAGE

Good reasons to use the Kaman KD-2306 and KDM-8206 measuring system:

Easy to use. The KD-2306 and KDM-8206 are easy to configure and re-calibrate in the field with its Windows®-based software.

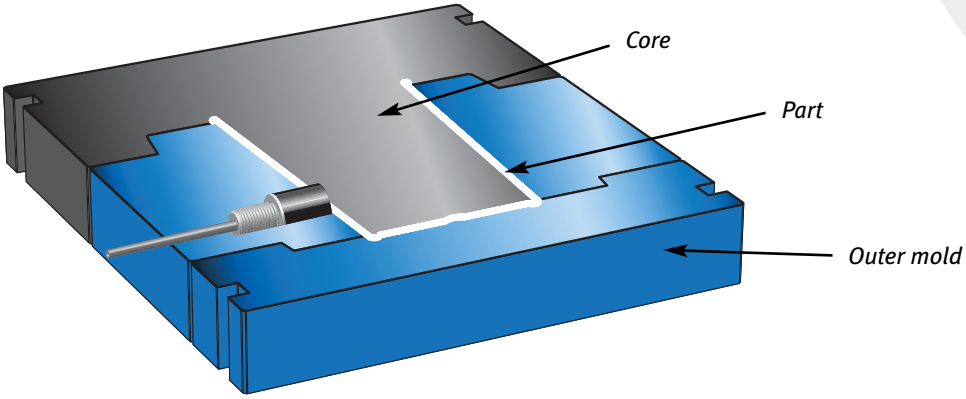
Rugged. The sensor can withstand pressures up to 20,000 psi and temperatures to 400 °F.

On-line. Kaman's sensor measures the thickness of the plastic as the part is being molded, so defects are discovered *before* the product is ejected and packaged.

Non-contact. Using eddy current technology, the sensor can measure the position of the inner core through the plastic without ever touching it. The result is an extremely reliable system with no moving parts.

Accurate. The KD-2306 and KDM-8206 actively compensate for the temperature shifts of a molding environment resulting in accurate readiness between start-up and run conditions.

Figure 1



Every application is unique.
Contact Kaman for application engineering assistance.

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KAMAN PRECISION PRODUCTS