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Industrial Molds Group

January News

Welcome to the Industrial Molds, Inc. January update. You will find a link to the new virtual tour videos on our website as well our engineering topic for the month. Also please check out the article in Plastics Today about finding a creative solution to a customer's challenging problem.

We have updated our website with new virtual tour videos. Please visit our website to view the 5 new videos.

www.industrialmolds.com

Industrial Molds Group, a precision mold manufacturer, look beyond the customer's requirement create innovative solutions to particularly challenging problems. Especially, when they see an opportunity to improve the manufacturing process. Tim Peterson, president of Industrial Molds Group says "Sometimes the solution wasn't even what the customer had in mind in the first place", "Using the expertise of Industrial Molds Group's engineering team, we can often come up with not only a totally different solution to the original problem, but the results exceed what the customer anticipated." [read the rest of the story]

<http://www.plasticstoday.com/imm/articles/selling-value>

Engineering Corner -

Welcome to Industrial Molds' Engineering Corner where each month we will feature an article that will provide some helpful tips, a brief case study, or answer questions that you submit. This month, we talk with Greg Osborn and Dale Strain of Industrial Molds about draft and the importance of designing parts to ensure optimum cycle times and quality parts.

Many designers are engaged in developing parts or new products to meet OEM, market and/or consumer requirements, it is our concern at Industrial Molds to make certain that the parts your engineering and design team creates are optimum for production tooling. Industrial Molds can be a valuable asset to your engineering team to ensure that the part is designed for good tooling conditions.

Draft is an easily overlooked design issue that if not addressed up front in part design, can create tooling issues down the road. Adding draft where it is needed can make the difference between a conforming part that runs good production at optimum cycle time, and one that creates headaches down the road for the molder.

"Always draft ribs" is one rule to remember, says Dale Strain. "We like to see a minimum of ½ degree draft per side on ribs," says Strain. "We are not always allowed that amount of draft on parts, but it's often necessary. " Additionally, take into consideration the thickness of the rib when you draft it so there are no sinks on the aesthetic surface side of the part, advises Strain.

For round parts, or parts of any shape with a deep draw, make sure the internal diameters have adequate draft. Syringe Barrels are one example where designers must walk a fine line between providing adequate draft and maintaining the form, fit, and function of the part. Industrial Molds has experience with syringe assemblies from a number of different applications, including industrial, medical, and pharmaceutical markets.

"Often the product cannot have draft inside a syringe barrel because of the functioning seal from the plunger," explains Greg Osborn. Syringe barrels need adequate draft for the part to release for optimum cycle times, but not so much that the part will not function as intended. "One solution would be to draft the top and bottom of the barrel diameter and leave the functioning areas draft free," says Osborn.

In general a well drafted part design will allow a clean release from the cavity and reduce stress on the part while ejecting from the core.

Please contact us with any questions on draft and we will have someone assist you on your draft concerns.

February's Newsletter will address shut-offs. If you have a question about this topic, write to us and we'll be happy to answer your specific question in February's Newsletter. Your information will remain confidential.

Greg Osborn - Account Manager

Greg.osborn@IndustrialMolds.com

Dale Strain - Engineering Manager/Mold Designer

Dale.strain@IndustrialMolds.com

Sincerely,
Industrial Molds, Inc.

customer.service@industrialmolds.com

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Industrial Molds, Inc. | 5175 27th Ave | Rockford | IL | 61109

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