

Injection Molding Reference Guide (4th EDITION)

By Jay W. Carender

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This reference guide was originally prepared in 1990 as a convenient pocket sized resource for use in Injection Molding. This information is most useful by personnel who work in the injection molding field including press operators, technicians, engineers, designers, mold builders, etc. There are many reference data tables regarding plastics data, statistical methods, engineering calculations and valuable training for personnel in the IM industry. The book includes basic part design, trig tables, calculations for thermal expansion, thermal exp coeffs, SHCS data, torque specs, shrink data, cooling time equation, mold debug guidelines, melt index data, resin density data, many tables of process guidelines, process development techniques, calculating heat load & water flow requirements, pipe data, conversion factors, transformer & motor current, PM & safety, basic statistics, equip selection guidelines and more. This 4th Edition has been reformatted at 5.5 inches wide x 8.5 inches tall in 2011 for print sales.

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Editorial Review

About the Author
The author - Jay Carender: • Hands on processing skills, • Mold build/mold design & engineering knowledge, • Degree in Mechanical Engineering from GMI (General Motors Institute of Technology ... now known as Kettering University), • DOE Training from Stat-Ease, Inc., • SPC Training from University of Tennessee Management Development Center, • SPC Training from ASQC, • Black Belt from AIT (Advanced Integrated Technologies), • Productivity and Quality Improvement Training by Dr. Deming, • Mold Design & Advanced Mold Design Training from New York University ... taught by John Klees Enterprises, • Multiple courses on processing from RJG Industries, Inc., • Owner of Advanced Process Engineering - company started in 1990 to create and market pocket sized reference booklets for injection molding industry. Six booklets written & published along with other training manuals. The hands on experience is from various fortune 500 companies performing injection molding. The extensive experience includes: • Hot runner molding, • High cavitation molds, • High speed molding with cycle times less than 5 seconds, • Stack molds, unscrewing molds, core pulls, slides, close tolerance parts, • Engineering resins, • SPC, • Statistics, • DOE to effect process improvement and dimensional nominalization.

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