

# THE RODON GROUP®

## CUSTOM PLASTIC INJECTION MOLDING SPECIFICATIONS

<b>Plastic Injection Molding General Capabilities:</b>	Custom Molding Solutions Problem Solving Design Tool Manufacture Material Selection
<b>Product Capabilities:</b>	Small Parts
<b>Mold Process Type:</b>	Injection
<b>Equipment:</b>	Automated Microprocessor Controlled Robotic Self-Diagnostic
<b>Length:</b>	Up to 10 in
<b>Height:</b>	Up to 10 in
<b>Width:</b>	Up to 10 in
<b>Shot Size:</b>	Fractional to 107 oz.
<b>Clamping Force:</b>	46 to 720 tons
<b>Number of Cavities:</b>	Prototype to 100+

<b>Inspection:</b>	<p>Certified Mechanical Inspection  Color Monitoring  Physical Appearance  Product Tolerances  Spectrophotometer  Vision Systems</p>
<b>Testing:</b>	<p>Gauges  Ultra Violet  Scales  Surface Plates  Tensile Strength</p>
<b>Quality:</b>	<p>Control Checks  Documentation  Quick Vision Inspection Systems  Specifications  Statistical Process Control (SPC) Charting</p>
<b>Additional Services:</b>	<p>3D Printing Capability  Custom Packaging  Design for Manufacturability  In-House Design and Tooling  Project Management</p>
<b>Production Volume:</b>	500,000 parts and up
<b>Lead Time:</b>	<p>Parts shipped from stock to less than 2 weeks (Production)  4 to 6 weeks - smaller, up to 12 weeks-larger (Tooling)  Just In Time (JIT)  Safety Stock Program</p>
<b>Material:</b>	<p>Engineering Grade  High Temperature  Commodity Resins  Acrylonitrile butadiene styrene (ABS)</p>

	<p>           Celcon            Glass Filled Nylon            High Density Polyethylene (HDPE)            High Impact Polystyrene (HIPS)            High Temperature            Low Density Polyethylene (LDPE)            Nylon            Others            Polypropylene (PP)            Acetyl            POM            Polyvinyl Chloride (PVC)            Thermoplastic Elastomers (TPE)            Thermoplastic Rubber (TPR)         </p>
<b>Industry Focus:</b>	<p>           Bearings/Conveyers            Caps/Closures            Consumer Products            Construction/Building            Food/Beverage            Lawn/Garden            Medical/Pharmaceutical            Office Products/Cabinets/Hardware            Point of Purchase (POP) Displays            Shower/Bath Products            Window/Door Hardware         </p>
<b>Intended Application:</b>	<p>Custom parts for various applications</p>
<b>Industry Standards:</b>	<p>           ISO 9001: 2015            Hazard Analysis and Critical Control Points (HACCP) Compliant            FDA Approved Resins            GMA-SAFE            BPA-Free Construction            Occupational Safety and Health Administration (OSHA) Compliant         </p>

<b>Resin Certifications:</b>	Food and Drug Administration (FDA) Restriction of Hazardous Substances (RoHS) Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) National Sanitation Foundation (NSF)
<b>Efficiency:</b>	*99% In-process Recyclability Demand response program Landfill-Free Facility Lean Manufacturing
<b>File Formats:</b>	AutoCAD Initial Graphics Exchange Specification (IGES) SolidWorks Standard for the Exchange of Product Model Data (STEP)