Injection Moulding

A screw injection system provides a specific amount of rubber into a closed, pressurised, mould. The injection unit is fed by a supply of uncured rubber, which is maintained at room temperature to prevent premature curing.

Benefits

- Consistent, high quality parts
- Ideal for high volumes.
- Moulding parameters can be precisely controlled

Limitations

- Relatively expensive for low volumes
- High tooling costs

Costs

- Determined by the material choice, and volumes
- Cost effective for high volume and high complexity parts
- Normally a trade off between cost of tool and part price

Contact details

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Applications

Large components (over approx. 1kg of silicone), components demanding high precision, and high volume products.

Quality

Manufactured in accordance with ISO9001:2000 quality standards. Part quality is highly influenced by the design of the tooling. Dimensional tolerances for compression mouldings comply with BS 3734: Part 1:1997. Higher tolerances may be possible.

Tooling

Bespoke steel tooling is recommended. The number of cavities is dependent on the size of the part, the volumes required, and the quality and tolerances demanded. Leading edge tooling design can result in very high yields.

Prototypes & Samples

We would normally recommend that a prototype tool is commissioned to confirm product design and function. Depending on the product, an aluminium or resin prototype tool can produce thousands of parts. Normally single cavity moulds, the samples produced are more expensive than production parts, and quality is rarely as good as parts produced with production tooling.

Lead-times

Typically 12-15 weeks. Lead times can be reduced by having fully dimensioned electronic drawing files with the required tolerances at the earliest possible opportunity. If this is not possible, our engineers can work from your sketches and drawings or we can design your product based on what you tell us.