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Energy Savings by the Use of Gas Assisted Injection Moulding

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The potential for energy and other savings by the use of gas-assisted injection moulding is examined. Data are presented from a laboratory mould and two industrial moulds, one internal, and the other external gas-assisted. It is concluded that energy savings on a per-part basis may be realised by the use of gas-assisted injection moulding, however savings in cycle time and material may significantly outweigh the energy savings obtained.