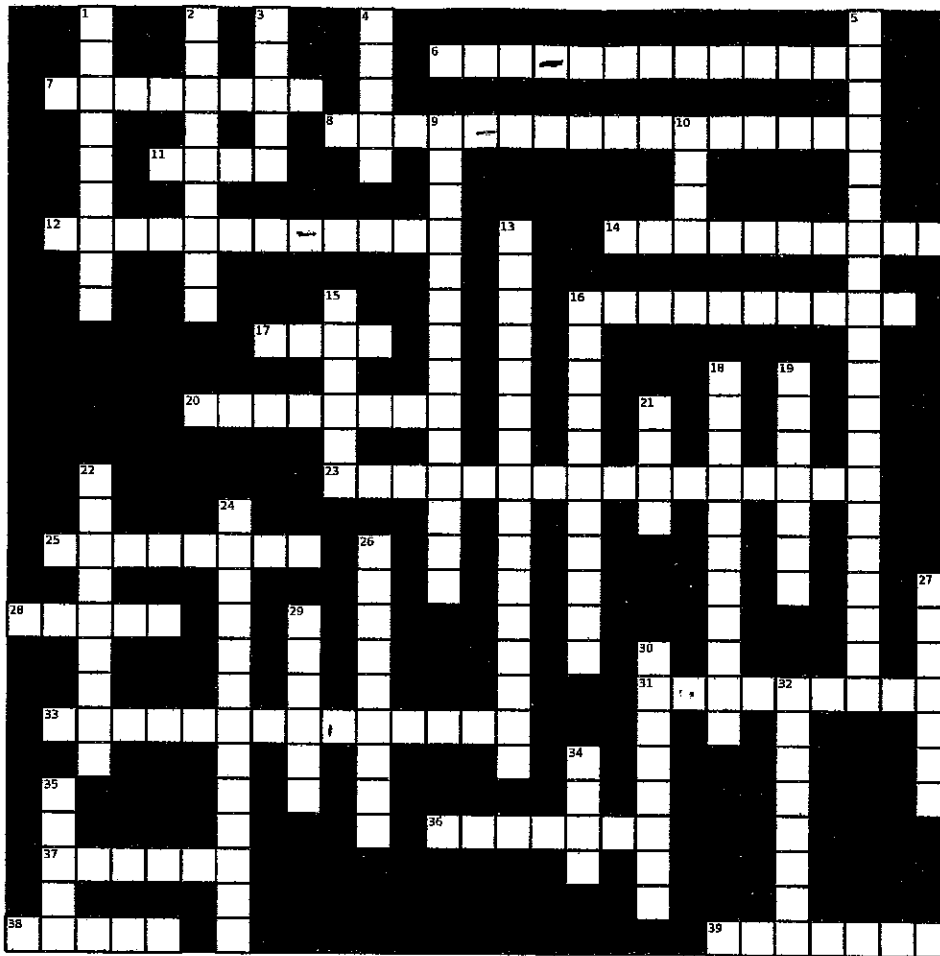


# Systematic Molding 1



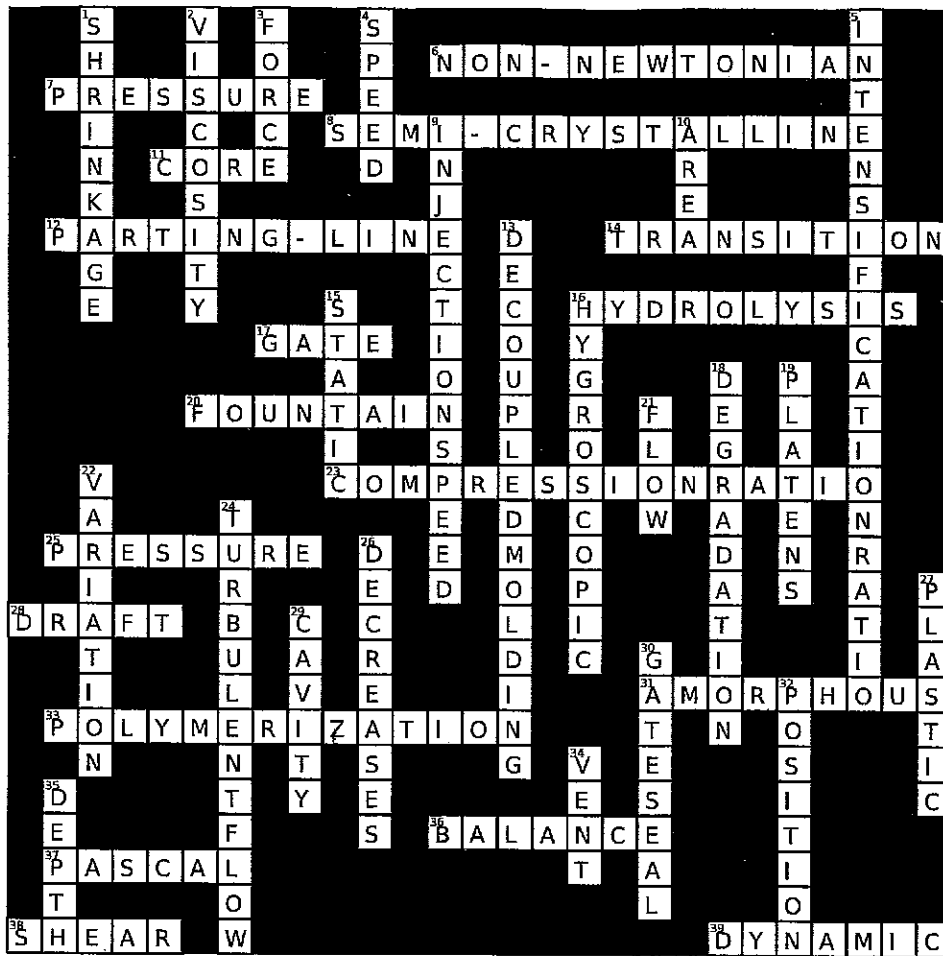
## Across

- 6 Shear thinning
- 7 Force divided by area
- 8 PP is in what family of thermoplastics? (Morphology)
- 11 Forms the inside of the part
- 12 Where a mold splits
- 14 Most of the melting happens in this zone
- 16 Presence of a chain breaking chemical
- 17 Connects runner to the cavity
- 20 Inside out polymer flow
- 23 Screw channel gets smaller (2 words)
- 25 Resistance to flow creates this
- 28 Angle parallel to part release to aid in removal
- 31 Random Structure Thermoplastic
- 33 Polymer cooking process
- 36 Same 4 plastic variables in each cavity
- 37 Developed equation for pressure
- 38 Provides 80% of the heat to melt plastic
- 39 Pressure loss during plastic flow

## Down

- 1 Differential \_\_\_\_ can give you part warping, sinks, voids
- 2 Polymer chain length affects its
- 3 Pressure x Area
- 4 Rate of flow determines it
- 5 R<sub>i</sub> (2 words)
- 9 Which parameter affects viscosity the most? (2 words)
- 10 Force divided by pressure
- 13 Separating fill from pack (2 words)
- 15 Pressure loss in cavity
- 16 Absorbs water
- 18 Broken Polymer Chains
- 19 The mold is mounted to the machine \_\_\_\_
- 21 Pumps provide it
- 22 Controlling critical process parameters will reduce normal \_\_\_\_
- 24 Provides the best cooling (2 words)
- 26 Increase in fill speed \_\_\_\_ viscosity
- 27 Constant \_\_\_\_ conditions provide constant parts
- 29 Forms the outside of the part
- 30 Best dimensional control (2 words)
- 32 Decoupled II molding transfers by \_\_\_\_
- 34 Allows air to escape the cavities
- 35 Dimension that determines gate freeze time

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