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From dilute to entangled fibre suspensions involved in the flow of reinforced polymers: a unified framework

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### Highlights

- Unified formulation of fibers suspensions,
- Micromechanical-based Brinkman model
- Lubrication approach involving an effective permeability
- Compression moulding processes can be conveniently described,
- Model adapts depending of the density of fibers contacts.

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