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# Sheet Pinning

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Sheet pinning  
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Various methods exist for adhering a hot molten polymer web to a moving casting surface. Both heat transfer and surface quality of the cast sheet are affected by the pinning force generated by each method. The primary purpose is to exclude air from between the sheet and casting surface to set the surface quality and maximize the heat transfer rates.

The four primary techniques used in the order of the pinnings forces generated are: Air knife, vacuum box, electrostatic, nip roll. Electrostatic pinning is generally not used in conjunction with a water bath process.

See also:

- [Casting roll bearings](#)
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