

Cellular PVC extrusion

Cellular PVC extrusion incorporates a blowing agent in a PVC compound that reacts with process heat to create a cellular structure in the cross section of a profile extrusion. The process effectively reduces the density of non-cellular rigid PVC. By varying the amount of blowing agent added to the base compound it's possible to vary the specific gravity in a range of .6 to 1.2 g/cc. Non-cellular rigid PVC has a specific gravity of 1.4 to 1.45 g/cc. Cellular PVC extrusion may be a consideration when cross sectional thicknesses exceed 1/8" and profile weight is a concern. If your profile extrusion requirement falls into this category contact us.

Other features and benefits of cellular PVC extrusion are as follows:

- Cellular PVC can be custom colored. If color is critical, co-extrusion is recommended to hold tight color tolerances.
- Cellular PVC can be co-extruded with non-cellular rigid PVC and some PVC compatible alloy raw materials. Co-extrusion of a capstock overlay for critical color requirements is recommended.
- Cellular PVC can be extruded in a net profile shape.
- Crane Plastics can produce cellular PVC with a hard skin surface or a soft skin surface.
- Cellular PVC extrusions can be cut to length, mitered, notched, drilled or otherwise customized during manufacture or at the point of use.
- Heavier cross sectional thicknesses afford nail, staple or screw holding strength comparable to wood.
- Cellular PVC has minimal water absorption properties.

If your profile extrusion application demands a heavy cross-sectional thickness and weight reduction is an important criteria, contact us to discuss your specific requirements.