



# COMPOSITE TECH BRIEF

partial or complete surface of the mold creating an area on the mold surface connected to the low-pressure vent line. Thus, any point on this area can be the position of last fill and maintain a leak path of the vent line resulting in complete fill of the mold cavity. The integration of the membrane adds a processing step to the lay-up of the material into the mold. Good membrane properties include adequate peel properties, high in-plane and thru-thickness gas permeability and robust processing capabilities at elevated temperatures and for complex geometries. Multiple membranes from various companies have been successfully tested.

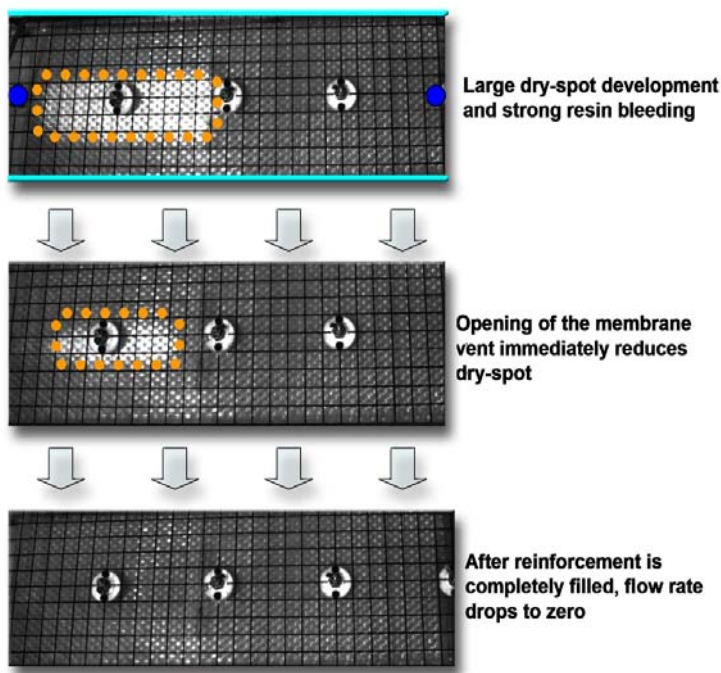
## BENEFITING INDUSTRY

During conventional RTM processing, gaps between the mold and the edges of the reinforcement material create race-tracking channels. This irregularity produces dry spots and increases part porosity by letting resin escape through the vent port

before the reinforcement material is fully saturated. The resulting part must be discarded. Tight tolerances on reinforcement placement or on-line process control can sometimes overcome this situation. However, all too frequently processors must undertake costly mold re-engineering or

replacement. By preventing resin from entering the vent port while enabling continuous venting through the membrane, UD-CCM's system eliminates this need altogether.

This significant improvement in RTM processing promises to be of



great value to manufacturers around the globe. It is yet another example of the UD-CCM's ability to find genuine solutions to difficult problems.

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