

## Application Comparison between 3M™ Wrap Film 1380 and 3M™ Wrap Film 1080

	1380	1080
● Application Temperature minimum (air and substrate)	+16 °C	+16 °C
● Recommended Application Temperature (air and substrate)	18 °C – 25 °C	18 °C – 23 °C
● Substrate	aluminum, glass, PMMA, PC (might require heat before use), ABS, paint	aluminum, PMMA, PC (might require heat before use), ABS, paint
● Cleaning of substrate	<b>Cleaning Procedure:</b> 1.) Standard car wash (without waxing), 2.) Thorough cleaning with 3M™ Surface Preparation System 3.) Dry substrate with lint-free towel 4.) Ensure substrate is completely dry	<b>Cleaning Procedure:</b> 1.) Standard car wash (without waxing), 2.) Thorough cleaning with 3M™ Surface Preparation System 3.) Dry substrate with lint-free towel 4.) Ensure substrate is completely dry
● Recommended Application Tool	3M™ PA-1 Gold Squeegee with blue Protection Buffer (thin, soft microfibre sleeve)	3M™ PA-1 Gold Squeegee with blue Protection Buffer (thin, soft microfibre sleeve)
● Squeegee pressure	High – (use thin and soft microfibre sleeve for the squeegee, don't use thick and soft sleeves)	High – (use thin and soft microfibre sleeve for the squeegee, don't use thick and soft sleeves)
● Application to Recesses	yes	Not recommended
● U-Shape Recess	Start the application on the flat part and bridge the film over the recess. Heat film to min. 50 °C, start in deepest point of the recess first, then continue at the opposite point, last apply the film in the middle part of the recess. Heat the recess and remove trapped air bubbles with air release tool.	Work with inlays and relief cuts
● Single Recess	Position the film, apply it from top to bottom and fix the edges of the contours. Heat the film around the recess area to min. 50 °C and apply the film into the recess. After the film is completely applied into the recess, apply the film on the remaining area within the recess. Heat the recess and remove trapped air bubbles with air release tool.	Work with inlays and relief cuts
● Post Heating of film applied to U-shape and single recess	Heat film in recesses to at least 85 °C to 100 °C, re-press the film in the recess	–
● Removability	With heat at 50 °C - 60 °C film surface temperature, use of IR heater is recommended	With heat at 50 °C - 60 °C film surface temperature, use of IR heater is recommended

