



1000 SERIES - ULTRA FORM PREMIER GLOSS - “SUPREME”

| PHYSICAL PROPERTY                    | TEST METHOD                                                                                                                            | SPECIFICATION                                                                                   | MEASURED PERFORMANCE      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|
| Substrate                            |                                                                                                                                        | ABS                                                                                             |                           |
| Substrate Gauges                     | Inches                                                                                                                                 | .020-.250                                                                                       |                           |
| Sheet Sizes                          | Inches                                                                                                                                 | Up to 48"x120"                                                                                  |                           |
| Silk Screening                       | Can be Silk-Screened                                                                                                                   | Can be Silk-Screened and Hot Stamped                                                            | Pass Adhesion             |
| Fabrication Properties               |                                                                                                                                        | Router, Saw, Die-cut, shear and Laser                                                           | Pass                      |
| Thermal Cycling                      | (-30°C x 2hrs -80°C x 2hrs) 10 cycles                                                                                                  | No Blister, Peeling, Cracking: 100/100 Adhesion                                                 | Pass                      |
| Humidity Resistance                  | 50°C, RH 95% x 240 hrs                                                                                                                 | 90 deg x-cut adhesion: 100/100                                                                  | Pass                      |
| Accelerated Weathering               |                                                                                                                                        |                                                                                                 |                           |
| <b>QUV Exposure</b>                  | Weatherometer: Fluorescent ultraviolet condensation type cycles: UV radiation 60°C x 4hrs - Condensation 50° x 4hrs Duration: 2000 hrs | Appearance: No discoloration, cracking, peeling or other defect 90 deg x-cut adhesion: 100/100  | Pass                      |
| <b>Xenon Exposure</b>                | Sae J1960 to 1500                                                                                                                      | Appearance: No discoloration, cracking, peeling or other defects 90 deg x-cut adhesion: 100/100 | Pass                      |
| <b>Xenon Exposure</b>                | Sae J1885 600 and 1240kj                                                                                                               |                                                                                                 | Pass                      |
| <b>Chemical Resistance</b>           |                                                                                                                                        |                                                                                                 |                           |
| <b>Gasoline Resistance</b>           | Dip in unleaded gasoline for 1 minutes                                                                                                 |                                                                                                 | Pass                      |
| <b>Gasoline Spotting</b>             | .1ml gasoline drop - 80° x 5 min - RT 1 min - wipe                                                                                     | Appearance: No blisters, peeling, wrinkles. No abnormal changes in gloss, color texture         | Pass                      |
| <b>Alkali Resistance</b>             | N/10 NaOH, 2ml ring type @ 55°C x 1 hrs                                                                                                |                                                                                                 | Pass                      |
| <b>Acid Resistance</b>               | N/10 N2SO4, 2ml ring type @ RT x 1 hrs                                                                                                 |                                                                                                 | Pass                      |
| <b>Engine Oil Spotting</b>           | .2ml engine oil drop - RT x 1.5 - 70°C x 1hrs-wipe                                                                                     |                                                                                                 | Pass                      |
| <b>W/Washer Spotting</b>             | 50/50 mix w/H2O .02ml drop - RT 1.5h - 70°C x 1 hrs - wipe                                                                             | No Noticeable change in appearance compared to the original standards                           | Pass                      |
| <b>Grease Spotting</b>               | 1 gm Multi purpose grease RT x 1.5 hr - 70°C x 1 hrs - wipe                                                                            |                                                                                                 | Pass                      |
| <b>Fantastik</b>                     | 1 ml RT x 3 min wipe                                                                                                                   | No soiling, staining, color transfer or change in appearance                                    | Pass                      |
| <b>Formula 409</b>                   |                                                                                                                                        |                                                                                                 | Pass                      |
| <b>Armor All (original)</b>          |                                                                                                                                        |                                                                                                 | Pass                      |
| <b>Armor All Cleaner</b>             |                                                                                                                                        |                                                                                                 | Pass                      |
| <b>Adhesion Testing</b>              | 90 degree x-cut pulled with Nichiban tape                                                                                              | 100/100                                                                                         | Pass                      |
| <b>Thermal Discoloration</b>         | 80° c 240 hours                                                                                                                        | No Yellow spots, discoloration, Wrinkling                                                       | DE 0.783                  |
| <b>Mar Resistance</b>                | GM9539P                                                                                                                                | Equal to or better than 400 or 600 series                                                       | Pass, no loss of adhesion |
| <b>Abrasion Resistance</b>           | ASTM D1044 Taber , CS17 wheel/500g                                                                                                     | 1500 cycles                                                                                     | Pass, no wear through     |
| <b>Gravelometer</b>                  | GM9508P                                                                                                                                | Rating = 7                                                                                      | Rating = 9                |
| <b>Optical</b>                       | Gardner Gloss 60 degree                                                                                                                |                                                                                                 | 85 +/- after forming      |
| <b>Impact</b>                        | ASTM D3029, Method G                                                                                                                   |                                                                                                 | >312 inch pounds @ .125"  |
| <b>Hardness</b>                      | Rockwell R scale                                                                                                                       |                                                                                                 | 102                       |
| <b>Heat Deflection Temperature</b>   | ASTM D648 @ 254 psi                                                                                                                    |                                                                                                 | 185 degree F              |
| <b>Thermal Expansion Coefficient</b> | ASTM D696                                                                                                                              |                                                                                                 | 5.0200E-05                |
| <b>Flammability Resistance</b>       | ASTM E96-80                                                                                                                            |                                                                                                 | Has Burned                |

\*\* All information provided strictly adheres to all exterior Automotive testing requirements. \*\*