

## PS212

## Product Information

### ● Product Description

Skyrol® **PS212** is an optically clear polyester film with anti-fog coated on both sides. Anti-fogging in most applications is by enhancing visibility and preventing eye fatigue. **PS212** is intended for use in the manufacture of face shields that resist non-corrosive fluids.

### ● Typical Properties

| <b>Property</b>         | <b>Unit</b>                 | <b>Value</b>               | <b>Test Method</b>            |
|-------------------------|-----------------------------|----------------------------|-------------------------------|
| <b>General</b>          |                             |                            |                               |
| Nominal Thickness       | (Gauge)<br>μm               | <b>700</b><br><b>(175)</b> | SKC Method                    |
| <b>Mechanical</b>       |                             |                            |                               |
| Tensile Strength        | psi MD<br>(Kg/mm2) TD       | 33,000 (26)<br>38,000 (27) | ASTM D 882                    |
| Elongation At Break     | % MD<br>TD                  | 244<br>166                 | ASTM D 882                    |
| <b>Surface</b>          |                             |                            |                               |
| Coefficient of Friction | μk (Kinetic)<br>μs (Static) | 0.41<br>0.35               | ASTM D1894                    |
| Surface Tension         | Dyne                        | over 70                    | ASTM D2578                    |
| Water Contact Angle     |                             | Below 20                   | SKC Method                    |
| Anti-Fog Property*      | 100°F<br>180°F              | PASS<br>PASS               | SKC Method                    |
| <b>Optical</b>          |                             |                            |                               |
| Haze                    | %                           | 0.9                        | ASTM D 1003                   |
| Light Transmission      | %                           | 90                         | ASTM D 1003                   |
| Gloss                   | %                           | 184                        | ASTM D 523                    |
| <b>Thermal</b>          |                             |                            |                               |
| Heat Shrinkage          | % MD<br>TD                  | 1.00<br>0.61               | SKC Method<br>(305°F * 30min) |

\* Test method is at 100 °F water bath 60 sec test : no fog → PASS  
at 180 °F water bath 5 sec test : no fog → PASS

Unit Correlation : N/mm2 = Kg/mm2 × 9.8, Kg/mm2 = psi / 1422.3

SKCA-I-14

This Information is the best currently available on the subject. The results should, however, only be regarded as a general guide to material properties and not as a guarantee. Some of the properties can be changed as a result of supplier's efforts to improve the quality or production efficiency of the subject.

Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.