

## Kleerdex Kydex® 1900 Acrylic/PVC Thermoplastic Sheet (discontinued \*\*)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Vinyl (PVC) , PVC/Acrylic Alloy

### Material Notes:

**Mid-temperature aircraft grade Applications:** This sheet product is designed for use in small aircraft interiors but also is appropriate for other applications where higher in-service temperatures may occur. Aircraft interior components examples include: air ducts, window reveals, instrument panels, toilet shrouds, armrests. **Features:** Kydex 1900 has improved heat distortion temperature for higher in-service temperatures. It meets FAR 25.853(a) for vertical burn and is available in a wide range of textures, color, thickness, and sheet sizes. **Fabrication:** Excellent forming properties result in uniform wall thicknesses and crisp detail, plus easy machining and fabricating using conventional methods, further expanding finished part possibilities. Data provided by the Kleerdex Company. Kleerdex Company became KYDEX, LLC in 2009.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kleerdex-Kydex-1900-AcrylicPVC-Thermoplastic-Sheet-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Kleerdex-Kydex-1900-AcrylicPVC-Thermoplastic-Sheet-nbspdiscontinued-.php)

| Physical Properties   | Metric                | English                   | Comments  |
|-----------------------|-----------------------|---------------------------|-----------|
| Density               | 1.35 g/cc             | 0.0488 lb/in <sup>3</sup> | ASTM D792 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in     |           |

| Mechanical Properties      | Metric                                   | English                                      | Comments  |
|----------------------------|--|--|-----------|
| Hardness, Rockwell R       | 108                                      | 108  | ASTM D785 |
| Tensile Strength, Ultimate | 41.0 MPa                                 | 5950 psi                                     | ASTM D638 |
| Elongation at Break        | 100 %                                    | 100 %  |           |
| Modulus of Elasticity      | 2.517 GPa                                | 365.1 ksi                                    |           |
| Flexural Yield Strength    | 69.0 MPa                                 | 10000 psi                                    | ASTM D790 |
| Izod Impact, Notched       | 6.00 - 9.00 J/cm<br>@Temperature 23.0 °C | 11.2 - 16.9 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments            |
|---|---------|---------|---------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 81.0 °C | 178 °F  | annealed; ASTM D648 |

| Processing Properties  | Metric       | English      | Comments            |
|------------------------|--------------|--------------|---------------------|
| Processing Temperature | 162 - 200 °C | 324 - 392 °F | Forming Temperature |

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