

# CS Hyde Company

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## 18-20F-P 20 mil. Polyimide Film

### Product Description:

This polyimide film has an operating temperature range of -269°C to 400°C. This polyimide film has an excellent balance of properties over a wide temperature range. Common properties include high electrical resistance, good chemical and solvent resistance. RoHs/Reach Compliant.

**\*4 mil. to 10 mil. is an all polyimide film. 11 mil. to 31 mil. is considered a multi-layer laminate to achieve nominal thickness.**

### Common Applications:

Mechanical parts, electronic parts, thermal and electrical insulation, fiber optics cable, insulation blankets and tubing, automotive diaphragm sensors and manifolds, etching and shim stock, flex circuits, seal rings, gaskets, and microfluidics.

**\*Perfect for Aerospace, Electronics, Semiconductor, and Chemical Industries.**

### **Nominal Values**

The following data are nominal values based on PSTC, ASTM and other standard tests. The data should not be considered as specifications

### **TYPICAL PROPERTIES**

|                             |                             |               |
|-----------------------------|-----------------------------|---------------|
| Total Thickness             | 20 Mil.                     |               |
| Tensile Strength            | 24,000 psi.                 | ASTM D-882-91 |
| Elongation at Rupture       | 50%                         | ASTM D-882-91 |
| Breakdown Strength          | 3000 volts/mil              | ASTM D-149-91 |
| Volume Resistivity          | $1.0 \times 10^{15}$ Ohm.cm | ASTM D-257-91 |
| Dielectric Constant (1hz)   | 3-4                         | ASTM D-150-92 |
| Operating Temperature Range | -269°C-400°C                |               |

\*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.