

# CS Hyde Company

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## PRODUCT INFORMATION

**36-F BLK**  
**BLACK ULTEM™ PEI Film**

Black in color. This amorphous polyetherimide film (PEI) film is derived from HU1000 Resin. This film is a specialized ULTEM™ film grade ideal for use in medical and pharmaceutical applications due to its ability to be sterilized utilizing various methods including EtO gas, radiation, steam autoclaving, dry heat, and cold sterilization. This material is biocompatible (ISO 10993 or USP Class VI).

**Features:** Excellent Mechanical, Electrical and Dimensional properties  
Chemical Resistance  
Flame Retardant UL94 VO and 5V Ratings  
RoHS Compliant  
Sterilizable

**Industry:** Hygiene and Healthcare- Pharmaceutical Packaging and Drug Delivery, Surgical Devices, General Healthcare, Patient Testing.

### Typical Properties

Property	Test Standard	English Units	Metric Units
<b>Mechanical</b>			
Flexural Modulus	D790	497 kpsi	3,430 MPa
Flexural Strength-Yield	D790	25 kpsi	173 MPa
Izod Impact Resistance-Notched	D256	0.99 ft-lb/in	53 J/m
Tensile Elongation @ Break	D638	60.00%	60.00%
Tensile Elongation @ Yield	D638	7.00%	7.00%
Tensile Modulus	D638	519 kpsi	3,580 MPa
Tensile Strength @ Break	D638	13 kpsi	90 MPa
Tensile Strength @ Yield	D638	15 kpsi	110 MPa
<b>Thermal</b>			
HDT @ 264 psi	D648	393°F	201°C
<b>Physical</b>			
Moisture Absorption	D570	0.25%	0.25%
Specific Gravity	D792	1.27	1.27
<b>Electrical</b>			
Volume Resistivity	D257	1x10 <sup>17</sup> ohm-cm	1x10 <sup>17</sup> ohm-cm

\*Data above is based on testing of injection molded specimens

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