

## Solvay Specialty Polymers Ajediumâ„¸ Films PPS Polyphenylene Sulfide (PPS)

Category : Polymer , Film , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

Polyphenylene sulfide, PPS, is a thermoplastic film that has excellent chemical resistance and good electrical and physical properties. Features: Flame Retardant; Good Chemical Resistance; Good Electrical Properties; Radiation (Gamma) Resistant Uses: Aircraft Applications; Automotive Applications; Electrical/Electronic Applications; Industrial Applications; Oil/Gas Applications Additional Properties: Area Factor - 145 ft<sup>2</sup>/lb/mil Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Ajedium-Films-PPS-Polyphenylene-Sulfide-PPS.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ajedium-Films-PPS-Polyphenylene-Sulfide-PPS.php)

| Physical Properties | Metric                     | English                    | Comments  |
|---------------------|----------------------------|----------------------------|-----------|
| Density             | 1.35 g/cc                  | 0.0488 lb/in <sup>3</sup>  | ASTM D792 |
| Water Absorption    | 0.020 %<br>@Time 86400 sec | 0.020 %<br>@Time 24.0 hour | ISO 62    |
| Thickness           | 75.0 microns               | 2.95 mil                   | As Tested |

| Mechanical Properties              | Metric   | English    | Comments   |
|------------------------------------|----------|------------|------------|
| Film Elongation at Break, MD       | 25 %     | 25 %       | ASTM D882  |
| Film Elongation at Yield, MD       | 3.5 %    | 3.5 %      | ASTM D882  |
| Secant Modulus, MD                 | 2.37 GPa | 344 ksi    | ASTM D882  |
| Dart Drop Test                     | 0.600 g  | 0.00132 lb | ASTM D1709 |
| Film Tensile Strength at Break, MD | 46.9 MPa | 6800 psi   | ASTM D882  |

| Thermal Properties        | Metric   | English | Comments   |
|---------------------------|----------|---------|------------|
| Melting Point             | 279 Â°C  | 534 Â°F | ASTM D3418 |
| Glass Transition Temp, Tg | 92.0 Â°C | 198 Â°F | DSC        |
| Oxygen Index              | 47 %     | 47 %    | ASTM D2863 |

| Electrical Properties | Metric                    | English                   | Comments  |
|-----------------------|---------------------------|---------------------------|-----------|
| Volume Resistivity    | 1.50e+17 ohm-cm           | 1.50e+17 ohm-cm           | ASTM D257 |
| Dielectric Constant   | 3.1<br>@Frequency 1000 Hz | 3.1<br>@Frequency 1000 Hz | ASTM D150 |
|                       | 4.00 kV/mm                | 102 kV/in                 |           |

| Dielectric Strength<br>Electrical Properties | Metric<br>@ Thickness 0.100 mm | English<br>@ Thickness 0.00394 in | ASTM D149<br>Comments |
|--|--------------------------------|-----------------------------------|-----------------------|
|--|--------------------------------|-----------------------------------|-----------------------|

| Descriptive Properties | Value          | Comments |
|------------------------|----------------|----------|
| Availability           | Asia Pacific   |          |
|                        | Europe         |          |
|                        | Latin America  |          |
|                        | North America  |          |
| Color                  | Yellow         |          |
| RoHS Compliance        | RoHS Compliant |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China