

Ajedium™ Films -- PPS

polyphenylene sulfide

Polyphenylene sulfide, PPS, is a thermoplastic film that has excellent chemical resistance and good electrical and physical properties.

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Chemical Resistant • Flame Retardant	• Good Electrical Properties • Radiation (Gamma) Resistant
Uses	• Aircraft Applications • Automotive Applications • Electrical/Electronic Applications	• Industrial Applications • Oil/Gas Applications
RoHS Compliance	• RoHS Compliant	
Appearance	• Yellow	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.35		ASTM D792
Water Absorption (24 hr)	0.020	%	ASTM D570

Films	Typical Value	Unit	Test method
Film Thickness - Tested	75	µm	
Secant Modulus - MD	2370	MPa	ASTM D882
Tensile Strength - MD (Break)	46.9	MPa	ASTM D882
Tensile Elongation - MD			ASTM D882
Yield	3.5	%	
Break	25	%	
Dart Drop Impact	0.60	g	ASTM D1709
Area Factor	145	ft ² /lb/mil	

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	92.0	°C	ASTM D3418
Peak Melting Temperature	279	°C	ASTM D3418

Electrical	Typical Value	Unit	Test method
Volume Resistivity	1.5E+17	ohms·cm	ASTM D257
Dielectric Strength (0.100 mm)	4.0	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.10		ASTM D150

Flammability	Typical Value	Unit	Test method
Oxygen Index	47	%	ASTM D2863

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Additional Information

Standard Thicknesses and Widths

- Widths are available from 22" (559 mm) to 56" (1422 mm).
- Products with widths <22 inches or >56 inches are available upon request.
- Tolerances for widths are +/- 4mm.
- For PPS film, the standard thicknesses are 25 microns (1 mil) to 1016 microns (40 mil).

Surface Finishes

- Standard surface finish is P/M (polished / matte).
- Custom finishes of P/P (polished / polished) and M/M (matte / matte) are available.

Packaging

- Film is supplied in a roll form of high quality, cardboard core of 3" (76mm) or 6" (152mm).
- PVC cores are available upon request in 3" and 6" sizes.

Labeling

- Products are labeled to comply with national and international standards.
 - Labels include product grade, unique batch number, roll length, roll width, product thickness, and net weight.
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Notes

Typical properties: these are not to be construed as specifications.

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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