

# Ajedium™ Films -- AvaSpire® AV-630

Polyaryletherketone  
Solvay Specialty Polymers

## Message:

AvaSpire® AV-630 PAEK film is a unique thermoplastic film that is characterized by a distinct combination of properties, which include strength, ductility, fatigue resistance, high purity and excellent chemical resistance to organics, acids, and bases. These properties make it well-suited for applications in aerospace, electronics, transportation, chemical processing, and other industrial uses.

General Information			
Features	Good dimensional stability		
	Good disinfection		
	Anti-gamma radiation		
	Impact resistance, good		
	Good chemical resistance		
	Fatigue resistance		
	Heat resistance, high		
	ductility		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Aircraft applications		
	Industrial application		
	Application in Automobile Field		
	Oil/Gas Supplies		
	Medical/nursing supplies		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tear Resistance	9.0	cN	ASTM D1004
Tear Propagation Resistance	250	gf	ASTM D1922
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested			
--	50	µm	
-- <sup>1</sup>	100	µm	
secant modulus			ASTM D882
MD	2040	MPa	ASTM D882
TD	2000	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Yield	71.7	MPa	ASTM D882
TD: Yield	68.9	MPa	ASTM D882
MD: Fracture	86.9	MPa	ASTM D882
TD: Fracture	83.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield	5.0	%	ASTM D882
TD: Yield	5.0	%	ASTM D882
MD: Fracture	130	%	ASTM D882
TD: Fracture	130	%	ASTM D882
Dart Drop Impact	830	g	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	158	°C	ASTM D3418
Peak Melting Temperature	340	°C	ASTM D3418
CLTE - Flow (-50 to 50°C)	4.3E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.24	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.9E+17	ohms	ASTM D257
Volume Resistivity	1.6E+14	ohms·cm	ASTM D257
Dielectric Strength (0.0500 mm)	200	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.06		ASTM D150
1 kHz	3.10		ASTM D150
1 MHz	3.05		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	48	%	ASTM D2863
Additional Information			
<p>Standard Thicknesses and Widths</p> <p>Widths are available from 22" (559 mm) to 56" (1422 mm). Products with widths 56 inches are available upon request.</p> <p>Tolerances for widths are +/- 4mm.</p> <p>For PAEK film, the standard thicknesses are 12 microns (0.5 mil) to 1016 microns (40 mil).</p> <p>Surface Finishes</p> <p>Standard surface finish is P/M (polished / matte).</p> <p>Custom finishes of P/P (polished / polished) and M/M (matte / matte) are available.</p> <p>Packaging</p> <p>Film is supplied in a roll form of high quality, cardboard core of 3" (76mm) or 6" (152mm).</p> <p>PVC cores are available upon request in 3" and 6" sizes.</p> <p>Labeling</p> <p>Products are labeled to comply with national and international standards.</p> <p>Labels include product grade, unique batch number, roll length, roll width, product thickness, and net weight.</p>			
NOTE			
1.	Tear properties		

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