Ajedium™ Films -- KetaSpire® KT-820

Polyetheretherketone

Solvay Specialty Polymers

Message:

KetaSpire® KT-820 PEEK film is thermoplastic film that is characterized by a distinct combination of properties, which include excellent wear resistance, best-in-class fatigue resistance, high purity, and excellent chemical resistance to organics, acids, and bases. These properties make it well-suited for applications in aerospace, electronics, chemical processing, healthcare, transportation, 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/cm³	ASTM D792
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tear Resistance	10.0	cN	ASTM D1004
Tear Propagation Resistance	320	gf	ASTM D1922
Area coefficient	149	ft²/lb/mil	
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested			
--	25	µm	
-- [1]	50	µm	
-- [2]	130	µm	
secant modulus			ASTM D882

MD	2050	MPa	ASTM D882
TD	2000	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	75.8	MPa	ASTM D882
TD: Yield	72.4	MPa	ASTM D882
MD: Fracture	109	MPa	ASTM D882
TD: Fracture	95.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Yield	6.8	%	ASTM D882
TD: Yield	6.7	%	ASTM D882
MD: Fracture	150	%	ASTM D882
TD: Fracture	170	%	ASTM D882
Dart Drop Impact	1300	g	ASTM D1709B

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load [3] (1.8 MPa, Annealed, 3.20 mm)	157	°C	ASTM D648
Glass Transition Temperature	150	°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	2.6E+16	ohms·cm	ASTM D257
Dielectric Strength (0.0500 mm)	150	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.10		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	37	%	ASTM D2863

Additional Information

Standard Thicknesses and Widths
Widths are available from 22" (559 mm) to 56" (1422 mm).
Products with widths 56 inches are available upon request.
Tolerances for widths are +/- 4mm.
For KetaSpire® film, the standard thicknesses are 8 microns (0.3 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.

NOTE

1.	Impact properties
2.	Tear properties
3.	200°C,2 hours

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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