

Solvay Specialty Polymers Ajedumâ„ç KT-820 Polyetheretherketone (PEEK)

Category : Polymer , Film , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

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. Features: Ductile; Fatigue Resistant; Flame Retardant; Good Chemical Resistance; Good Dimensional Stability; Good Impact Resistance; Good Sterilizability; High Heat Resistance; Radiation (Gamma) Resistant Uses: Aircraft Applications; Automotive Applications; Electrical/Electronic Applications; Industrial Applications; Medical/Healthcare Applications; Oil/Gas Applications Additional Properties: Area Factor - 149 ftÂ²/lb/mil Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ajedum-KT-820-Polyetheretherketone-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/inÂ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Thickness	25.0 microns	0.984 mil	As Tested

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	75.8 MPa	11000 psi	ASTM D882
Film Tensile Strength at Yield, TD	72.4 MPa	10500 psi	ASTM D882
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	170 %	170 %	ASTM D882
Film Elongation at Yield, MD	6.8 %	6.8 %	ASTM D882
Film Elongation at Yield, TD	6.7 %	6.7 %	ASTM D882
Secant Modulus, MD	2.05 GPa	297 ksi	ASTM D882
Secant Modulus, TD	2.00 GPa	290 ksi	ASTM D882
Dart Drop Test	390 g	0.860 lb	ASTM D1709
Film Tensile Strength at Break, MD	109 MPa	15800 psi	ASTM D882
Film Tensile Strength at Break, TD	95.8 MPa	13900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metricµm/m-Â°C	Englishin/in-Â°F	Comments
CTE, linear, Parallel to Flow	@Temperature -50.0 - 50.0 Â°C	@Temperature -58.0 - 122 Â°F	1
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ftÂ²-Â°F	ASTM C177
Melting Point	340 Â°C	644 Â°F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	157 Â°C @Thickness 3.20 mm	315 Â°F @Thickness 0.126 in	Annealed; ASTM D648
Glass Transition Temp, Tg	150 Â°C	302 Â°F	DSC
Oxygen Index	37 %	37 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.60e+16 ohm-cm	2.60e+16 ohm-cm	ASTM D257
Surface Resistance	>= 1.90e+17 ohm	>= 1.90e+17 ohm	ASTM D257
Dielectric Constant	3.05	3.05	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.06	3.06	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	3.1	3.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	150 kV/mm	3810 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Translucent	
RoHS Compliance	RoHS Compliant	

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