AJEDIUM MODIFIED PEEK FILM

Modified Polyetheretherketone Film Data Sheet

Modified PEEK (poly-etheretherketone) films can offer improved ductility and impact strength relative to PEEK.

This material has been specifically formulated for applications requiring a balance of chemical resistance and mechanical strength along with good part aesthetics, bridging the performance gaps within the ultra polymers space.

Modified PEEK films have high temperature resistance, very good chemical and fatigue resistance and high thermal stability.

Plus, modified PEEK films generally offer improved part economics relative to unmodified PEEK films.

All these properties make it well -suited for applications in healthcare, transportation, electronics, chemical processing, and other industrial uses.

MANUFACTURING

Modified PEEK films are extruded by Ajedium Films in a wide range of thicknesses, widths and lengths.

*For further information on modified PEEK films produced by Ajedium Films, a division of Solvay Solexis, Inc., contact your Solvay Solexis representative, call Ajedium Films at (302) 452-6609 or go to **www.ajedium.com**.*

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AJEDIUM Films
a division of Solvay Solexis, Inc.

Solvay Solexis

SOLVAY

AJEDIUM MODIFIED PEEK FILM

MODIFIED PEEK FILM - TYPICAL PROPERTIES*

Properties	Test Method	Typical Values	
		SI Units	US Customary Units
Physical and Thermal Properties			
Melting Temperature	ASTM D-3418	340 °C	644 °F
Glass Transition Temperature	ASTM D-3418	158 °C	316 °F
Water Absorption @ 50°C (122°F), 75%RH, 24 hrs.	ASTM D-570	0.2 %	0.2 %
Yield	internal	775 m^2/kg/µm	21,450 in^2/lb/mil
Mechanical Properties		***MD TD***	***MD TD***
Stress at Yield @ 23°C (73°F)	ASTM D-882	72 MPa 69 MPa	10,400 psi 10,000 psi
Elongation at Yield @ 23°C (73°F)	ASTM D-882	7.8 % 7.3 %	7.8 % 7.3 %
Stress at Break @ 23°C (73°F)	ASTM D-882	87 MPa 83 MPa	12,600 psi 12,100 psi
Elongation at Break @ 23°C (73°F)	ASTM D-882	166 % 164 %	166 % 164 %
Modulus @ 23°C (73°F)	ASTM D-882	2,040 MPa 2,000 MPa	296 kpsi 290 kpsi
Tear Propagation	ASTM D-1922	54 g force 33 g force	0.12 lbf 0.073 lbf
Tear Resistance	ASTM D-1004	2030 g force 1970 g force	4.47 lbf 4.35 lbf
Dart Impact	ASTM D-1709	828 g	1.83 lb

** Reported values were measured on a 50µm thick film*

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