

Victrex® APTIV® 1300-100G Polyetheretherketone (PEEK) Polymer Film

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

Material Notes:

Description APTIV® 1300 film is the black version of unfilled semi-crystalline films made from VICTREX® PEEK polymer. The film provides a material solution for engineers in ultra-high performance applications offering an alternative option to the APTIV 1000 natural product. APTIV 1300 film has a unique combination of properties providing high temperature performance, light weight, mechanical strength, durability, excellent radiation, hydrolysis and chemical resistance, electrical insulation, wear and abrasion resistance, excellent barrier properties with high purity, good flammability without the use of flame retardants, low toxicity of combustion products and low moisture absorption in a film format. Inherently halogen free and providing ease of processing makes APTIV films a technology enabler. **Applications:** Acoustic speaker diaphragms and voice coils Composites Aerospace insulation Pressure sensitive tapes Washers in high speed motors Washers in mobile phone hinges Flexible surface heaters Pressure sensor membranes Proven temperature resistance to use of lead free solders **Features** High heat resistance Excellent tribological properties Broad chemical resistance Low moisture absorption High strength and toughness Stable, excellent electrical insulation properties Good flammability performance without use of flame retardant additives Inherently halogen free Radiation resistance Low smoke and toxic gas emission Excellent hydrolysis resistance Excellent acoustic properties High purity Light weight Recyclable Easy to process - can be laminated to other materials, thermoformed, metallized, coated, printed, stamped and die cut, welded, heat sealed, and coated. Information Provided by VICTREX®

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http://www.lookpolymers.com/polymer_Victrex-APTIV-1300-100G-Polyetheretherketone-PEEK-Polymer-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thickness	50.0 microns	1.97 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 150 %	>= 150 %	ISO 527
Film Elongation at Break, TD	>= 150 %	>= 150 %	ISO 527
Tensile Modulus	2.30 GPa	334 ksi	TD; ISO 527
	2.40 GPa	348 ksi	MD; ISO 527
Film Tensile Strength at Break, MD	120 MPa	17400 psi	ISO 527
Film Tensile Strength at Break, TD	110 MPa	16000 psi	ISO 527

Thermal Properties	Metric	English	Comments
Shrinkage, MD	<= 2.0 %	<= 2.0 %	TM-VX-84
	@Temperature 200 °C	@Temperature 392 °F	

Thermal Properties	Metric	English	Comments
	@Temperature 200 °C	@Temperature 392 °F	TM 1X 04

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm @Temperature 23.0 °C	4.00e+16 ohm-cm @Temperature 73.4 °F	100V; ASTM D257
Dielectric Strength	190 kV/mm	4830 kV/in	MD, 6.25mm (0.25in) electrode; ASTM D149
	190 kV/mm	4830 kV/in	TD, 6.25mm (0.25in) electrode; ASTM D149

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