

Victrex® APTIV® 2102-100M Polyetheretherketone (PEEK) Polymer Film, Amorphous, Mineral Filled

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

Material Notes:

APTIV® 2100 series films are the mineral filled amorphous films made from VICTREX® PEEK polymer. The film provides a material solution for engineers in ultra-high performance applications. APTIV films are a comprehensive range of versatile, high-performance films, the use of which can facilitate reduced systems costs, improved performance and enhanced design freedom. APTIV 2100 has a unique combination of properties providing high temperature performance, lightweight, mechanical strength, durability, excellent radiation, hydrolysis and chemical resistance, electrical insulation, 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 ease of processing makes APTIV films a technology enabler for our customers and end users. APTIV 2100 series provides a higher modulus over the APTIV 2000 series amorphous films. This grade is tailored towards thermoforming of thin wall parts with higher modulus, such as speaker diaphragms. Applications Electrical insulation Acoustic speaker diaphragms Thermoforming of thin wall parts Properties measured on 50 micron film

Order this product through the following link:

http://www.lookpolymers.com/polymer_Victrex-APTIV-2102-100M-Polyetheretherketone-PEEK-Polymer-Film-Amorphous-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	>= 150 %	>= 150 %	ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
	>= 150 %	>= 150 %	ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
Film Elongation at Break, TD	>= 150 %	>= 150 %	ISO 527
	@Thickness 0.125 mm	@Thickness 0.00492 in	
	>= 150 %	>= 150 %	ISO 527
	@Thickness 0.125 mm	@Thickness 0.00492 in	
Tensile Modulus	3.00 GPa	435 ksi	TD; ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
	3.00 GPa	435 ksi	MD; ISO 527
	@Thickness 0.125 mm	@Thickness 0.00492 in	

Mechanical Properties	Metric	English	Comments
	@Thickness 0.125 mm	@Thickness 0.00492 in	
	3.50 GPa	508 ksi	MD; ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
Film Tensile Strength at Break, MD	90.0 MPa	13100 psi	ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
	100 MPa	14500 psi	ISO 527
	@Thickness 0.100 mm	@Thickness 0.00394 in	
Film Tensile Strength at Break, TD	80.0 MPa	11600 psi	ISO 527
	@Thickness 0.125 mm	@Thickness 0.00492 in	
	100 MPa	14500 psi	ISO 527
	@Thickness 0.125 mm	@Thickness 0.00492 in	

Thermal Properties	Metric	English	Comments
Shrinkage, MD	<= 0.50 %	<= 0.50 %	TM-VX-84
	@Thickness 0.100 mm	@Thickness 0.00394 in	
Shrinkage, TD	<= 0.50 %	<= 0.50 %	TM-VX-84
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	100V; ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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