APTIV® 1300

Polyetheretherketone

Victrex plc

Message:

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 for OEMs, our customers and end users.

General Information	
UL YellowCard	E161131-101128287
Features	Barrier Resin
	Clean/High Purity
	Durable
	Electrically Insulating
	Excellent Printability
	Flame Retardant
	Good Abrasion Resistance
	Good Chemical Resistance
	Good Processability
	Good Toughness
	Good Wear Resistance
	Halogen Free
	Heat Sealable
	High Heat Resistance
	High Strength
	Hydrolysis Resistant
	Low Moisture Absorption
	Low Smoke Emission
	Low Toxicity
	Metallizable
	Radiation (Gamma) Resistant
	Recyclable Material
	Semi Crystalline
	Weldable
Uses	Aerospace Applications
	Compounding
	Dianhagene

Diaphragms

Film

	Insulation		
	Laminates		
	Membranes		
	Таре		
	Washer		
Agency Ratings	EU 2002/72/EC		
	EU 2004/19/EC		
	FDA 21 CFR 177.2415		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Film		
Processing Method	Coating		
	Laminating		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Shrinkage ¹			
MD : 200°C, 50.0 μm	< 2.0	%	
TD - 200%C F0 0	< 2.0	%	
TD : 200°C, 50.0 μm			
Puncture Resistance (23°C, 50.0 µm)	5.00	kJ/m²	Internal Method

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		ISO 527-3
2500	MPa	
2500	MPa	
2400	MPa	
2300	MPa	
		ISO 527-3
120	MPa	
110	MPa	
120	MPa	
110	MPa	
		ISO 527-3
> 150	%	
> 150	%	
> 150	%	
> 150	%	
Nominal Value	Unit	Test Method
4.0E+16	ohms•cm	ASTM D257
	2500 2400 2300 120 110 120 110 120 110 20 110 20 20 20 20 20 20 20 20 20 20 20 20 20	2500 MPa 2400 MPa 2300 MPa 120 MPa 110 MPa 120 MPa 110 MPa 120 MPa 120 MPa 110 MPa 120 MPa 110 MPa 110 MPa 110 MPa 110 MPa 110 MPa 110 % > 150 % > 150 % Nominal Value Unit

Dielectric Strength ³ (23°C, 0.0500 mm)	190	kV/mm	ASTM D149
NOTE			
1.	TM-VX-84		
2.	100 V		
3.	6.25 mm electrode		

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Recommended distributors for this material

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