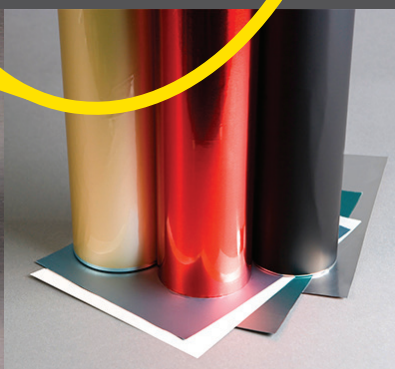




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Multapex PET Motor Plain

Product:	Multapex PET Motor Plain							
Type:	Polyester Film							
Multapex PET Motor Plain is a milky white film specifically developed as an insulating material for rotating electrical applications. These films offer exceptional cut through resistance, low shrinkage, low moisture absorbtion, & high thermal durability.								
Properties	Test Method	Units	Metric Values ¹					
General								
Thickness	MPEX	um	125	190	250	300	350	
Yield	MPEX	m ² /kgs	5.71	3.76	2.86	2.38	2.04	
Density	ASTM-D-1505	g/cc	1.4					
Service Temperature	MPEX	°C	-70-150					
Mechanical								
Tensile Strength	MD	ASTM-D-882	kg/cm ²	1900	1900	1900	1700	1600
	TD	ASTM-D-882	kg/cm ²	1900	1900	1900	1700	1600
Elongation	MD	ASTM-D-882	%	160	160	160	170	170
	TD	ASTM-D-882	%	160	160	160	170	170
COF - Static (One Side to Other)		ASTM-D-1894	-	0.4	0.4	0.4	0.4	0.4
Optical								
Haze		ASTM-D-1003	%	80.0	85.0	92.0	95.0	95.0
Thermal								
Shrinkage @ 150°C for 30 Mins	MD	ASTM-D-1204	%	1.0	1.0	1.0	1.0	1.0
	TD		%	0.2	0.2	0.2	0.2	0.2
Shrinkage @ 190°C for 5 Mins	MD	ASTM-D-1204	%	2.0	2.0	2.0	2.0	2.0
	TD		%	1	1	1	1	1
Melting Point		DSC	°C	250				
Electrical								
Break Down Voltage in air (2" Electrode)		ASTM-D-149	KV	15.5	18.5	19.5	21.5	22.5
Surface Resistivity		ASTM-D-257	Ohm	10.12				
Volume Resistivity		ASTM-D-257	Ohm/m	10.16				
Dielectric Constant		ASTM-D-150		2.8-4.0				
Chemical Resistance								
Dilute Acids & Alkalis				Good				
Concentrated Alkalis				Poor				
Concentrated Hydrochloric Acid				Fair				
Concentrated Sulphuric Acid				Poor				
Grease, Oils, & Fats				Good				
Organic Solvents, Alcohol & Hydrocarbons				Good				
Ketones, Esters, & Chlorinated Compounds				Fairly Good				
Phenols, Cresols, & Chlorinated Phenols				Poor				
Multapex Stock Grade								
Special Order - Can be supplied based on meeting MOQ requirements								

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Note:

¹ Values are typical laboratory averages. The results should therefore only be regarded as a general guide to material properties and not as design data. Multapex Pty Ltd makes no representations as to the suitability of this material for any application. Customers must conduct their own testing for each specific application.

Caution:

Do not use in medical applications involving the permanent implantation in the human body. For other medical applications please review with Multapex Pty Ltd. Multapex Pty Ltd accepts no liability for use of its products in medical applications. Multapex Pty Ltd supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

General:

In addition to the above Multapex Pty Ltd's standard "Terms & Conditions of Trade" apply. A copy can be provided on request.



About Us

Multapex is an Australian business which utilises flexible materials to create unique solutions for our customers.

We are passionate about working with you to gain a deep knowledge of your application and tailoring a product to match. With over 40 years' experience, we can be trusted to collaborate with your team and deliver.

Multapex was founded in 1976 with a 'customer first' philosophy. Today this focus permeates our organisation as we continually strive to create value for our clients.

Our Values

Knowledge

We invest time and resources to acquire knowledge across all areas of our business – customers, suppliers, industries, materials, processes, next-gen, education.

Precision

We are precise and detail orientated in everything we do – conversion, processes, systems, delivery, interactions, finances.

Flexibility

We are flexible in our approach and mindset which allows us to solve whatever challenge is presented to us.

Dedication

We are committed to pursuing every opportunity and challenge with zeal to achieve the desired result.



Get in touch

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