

Product Data Sheet

Preliminary: ES 1521 Blue - 1M/1M PET BATTERY INSULATION TAPE

Spec#: MFR5156-5 DURABLE



Facestock 1
Acrylic Adhesive 1
Facestock 2
Acrylic Adhesive 2
Liner

Facestock 1 & 2		Facestock physical properties							
1.0 mil Clear Biaxially Oriented Polyethylene Terephthalate (BOPET)				Imperial Value	Units	Metric Value	Units		
		Caliper:				.001	inches	23	micron
		ASTM D1000							
		Elongation to Break							
		MD	130	%					
		CD	100	%					
		ASTM D882							

Adhesive 1 & 2		Adhesive physical properties							
Blue pigmented acrylic adhesive				Imperial Value	Units	Metric Value	Units		
		Type:				Emulsion Acrylic			
		Caliper:				0.001	inches	25	micron
		ASTM D1000							
		Dynamic Shear:				128	psi	0.88	MPa
		Minimum Appl Temp:				32	F	0	C
		Typical Service Temp Range:		Min	0	F	-17	C	
				Max	180	F	82	C	
Loop Tack Stainless Steel: PSTC11				38	oz/in	42	N/100mm		

Release:		Total Construction Caliper Without Liner	
TMLI 90° Peel at 12ipm (304.8mm per minute)		(approximate)	
Rate of Removal	Grams/2" Width		
12 ipm (304.8mm per minute)	30	0.0039 inches	

Features and Benefits

- Double layer facestock for dielectric redundancy
- Clear face stock with Blue adhesive for application indication and aesthetic requirements
- Acrylic adhesive with excellent aging resistance and shear strength
- Double 1M PET facestock provides electrical insulation (>11 kV AC Breakdown Voltage)
- Made in US for Inflation Reduction Act compliance and local North American cell production

Applications and Uses

- This product is intended as electrical insulation for prismatic and cylindrical cell wrapping for energy storage and electric vehicles.

Optimal Storage Conditions

- Unless otherwise specified in this document, ideally store at 72F (23C) and 50% RH

Note:

The technical data presented is from tests we believe to be reliable but should be considered representative or typical only and should not be used for specifications purposes. This product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

The information on compliance conditions, substrates, and printing products contained in the tables above represent a summary of recognized or acceptable conditions and printing products. Other conditions, substrates, and printing products may be recognized with this material. Please consult the specific compliance organization records or specific files for a complete listing.

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