PureTherm® ESD 1500

PVC Film

Tekni-Films, a div of Tekni-Plex

Message:

PureTherm® ESD 1500 is a high-clarity, static dissipative, rigid PVC based plastic sheet.

This thermoformable product for trays, lids and clamshell containers provides superior structural and electrostatic protection for sensitive electronic components.

PureTherm® ESD1500 meets or exceeds Military Specification MIL-B-81705-C, EIA-541, EOS/ESD 811.11 and Bellcore GR-1421-CORE requirements for surface resistivity and static decay at 12% relative humidity.

The proprietary PureTherm® ESD1500 process is non-humidity dependent and offers long-lasting shelf life.

General Information				
Features	Rigidity, high			
	Definition, high			
	Self-extinguishing			
Uses	Thermoforming Applications			
	Cover			
	Container			
Agency Ratings	MIL B-81705C			
Appearance	Available colors			
	Clear/transparent			
Forms	Films			
	Sheet			
Processing Method	Thermoforming			
Physical	Nominal Value	Unit		
Specific Gravity	1.34	g/cm³		
Films	Nominal Value	Unit	Test Method	
Film Thickness ¹	127 - 1020	μm		
Heat Distortion	75	°C	ASTM D1637	
Cold shock	Medium to High			
Static Decay ²		sec		
Outgassing			ASTM E595	
CVCM	0.020	%	ASTM E595	
TML	0.80	%	ASTM E595	
WVR	0.040	%	ASTM E595	
Roll Width ³		cm		
Thermoforming Molding Temperature	120 - 180	°C		

Tensile Strength - MD (Yield)	50.0	MPa	ASTM D882
Free Shrinkage	-4.0 - 4.0	%	ASTM D2732
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8 - 1.0E+10	ohms	ESD S11.11
Additional Information	Nominal Value	Unit	Test Method

Contact Corrosion (FTSM 101-C method 3005): No CorrosionPolycarbonate Compatibility (EIA 564): Compatible at 48.9° C12 Day Oven Aging (ASTM D-257): 10° 8 to 10° 10 Ohms/sq

NOTE	
1.	Thickness tolerance: ±10%
2.	EIA 541
3.	Roll width tolerance: ±1.5 mm

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