Technical Data Sheet

ARGOTEC

Argotec™ 18455

General Description

Argotec™ Medical Film (formerly ArgoMedPLUS) is a film-on-paper product comprised of aromatic, ether-based, waterproof and breathable, thermoplastic polyurethane film extrusion coated onto a specialty paper. The TPU film is made without the addition of processing aids or modifiers, giving it consistent moisture-vapor transmission and surface tension for adhesion. It provides the medical wound care industry with an alternative film/carrier system for frame bandages and incise drapes. The USP-candidate components deliver a controlled peel (release) between the paper carrier and film.

Typical application: Medical frame bandages where both film and carrier withstand heat exposure up to 300°F for 5 minutes without loss of peel integrity
Polymer: Aromatic, ether-based, thermoplastic polyurethane (TPU)
Extrusion method: Cast
Key attributes:

- Soft, waterproof, breathable, conformable for patient comfort
- USP class IV & class VI candidate components
- Withstands EtO & gamma sterilization
- No processing aids or modifiers used, resulting in consistent moisture vapor transmission & surface tension for adhesive wet-out.

Property / Capability		Test Method	Typical Value
Gauge Ranges		N/A	1.0 - 3.4 mil (25 - 85 microns)
Width Ranges		N/A	Up to 63 Inches (1.6 meters)
Length Ranges		N/A	Up to 1100 non-spliced yards (1000 meters)
Shore Hardness		ASTM D-2240	80A
Specific Gravity		ASTM D-792	1.11
MVTR (1.0 mil, 38°C, 50% RH)		ASTM E-96B	750
TPU adhesion to carrier (1" strip, 90", 144"/min speed)		PSTC-15	50 - 400 gli / customer specific
Ultimate Tensile Strength	MD	ASTM D-882	3500 - 5000 psi (24.14 - 34.48 MPa)
	TD		3000 - 4500 psi (20.69 - 31.03 MPa)
Ultimate Elongation	MD		350 - 450%
	TD		350 - 450%
Modulus (100%)	MD		900 - 1100 psi (6.21 - 7.59 MPa)
	TD		800 - 1000 psi (5.52 - 6.90 MPa)
Barrier properties (viral penetration)		ASTM F-1671	Pass
Surface Tension		ASTM D-2578	>36 dyne/cm

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