

INTEGRAL™ E100

Polyolefin Adhesive Film

The Dow Chemical Company

Message:

INTEGRAL™ E100 Film is a versatile, heat-activated film which bonds to a variety of substrates including: metals (e.g., aluminum, galvanized steel, copper, brass, magnesium), fibers (e.g., paper, cotton, glass, nonwovens, mineral wool), and plastics (e.g., polyethylene, nylon, polyester, polyurethane foams/sheet, acrylic adhesives).

INTEGRAL E100 can also be used as a tie layer to provide bond between substrates. Corona treatment is available.

New experimental films are continually being developed. Please discuss your particular application needs with your Dow representative.

General Characteristics:

Heat Activation Point: 215°F (102°C)

Yield: 208 sq ft/lb/mil (42.6 m²/kg/25 µm)

Available Colors: Clear

Gauge Range: 1.0-6.0 mil (25-150 µm)

Width Range: 12-96 in (305-2440 mm)

General Information			
Appearance	Clear/Transparent		
Forms	Film		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Thickness - Recommended / Available	1.0-6.0 mil (25-150 µ)		
Secant Modulus			ASTM D882
2% Secant, MD : 51 µm	138	MPa	
2% Secant, TD : 51 µm	131	MPa	
Tensile Strength			ASTM D882
MD : Break, 51 µm	24.8	MPa	
TD : Break, 51 µm	22.8	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 µm	320	%	
TD : Break, 51 µm	490	%	
Film Width	30.48 to 243.84	cm	
Heat Seal Strength ¹ (149°C)	560	N/m	Internal Method
Yield (25.4 µm)	42.2	m²/kg	
Heat Activation Temperature	102	°C	
NOTE			
1.	40 psi, 0.5 sec dwell, due to substrate failure		

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