

# INTEGRAL™ 816

Polyolefin Adhesive Film  
The Dow Chemical Company

Message:

INTEGRAL 816 Adhesive Film is a high-flow adhesive film designed to bond to corrugated paperboard. It is a multi-layer structure with one-side designed to flow and create an integral bond with fibrous substrates, such as paper or cardboard. The other side serves as a barrier/ protective layer. This product is FDA compliant, which makes it suitable for medical, cosmetic, and food packaging applications. 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: 207 sq ft/lb/mil (42.3 m²/kg/25 µm)

Available Colors: Clear

Gauge Range: 1.0-3.5 mil (25-88 µm)

Width Range: 20-96 in (508-2440 mm)

General Information			
Agency Ratings	FDA Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Film		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Thickness - Recommended / Available	1.0-3.5 mil (25-88 µ)		
Secant Modulus			ASTM D882
2% Secant, MD : 51 µm	222	MPa	
2% Secant, TD : 51 µm	283	MPa	
Tensile Strength			ASTM D882
MD : Break, 51 µm	22.0	MPa	
TD : Break, 51 µm	14.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 µm	220	%	
TD : Break, 51 µm	430	%	
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	20	g	
TD : 51 µm	370	g	
Film Width	50.80 to 243.84	cm	
Yield (25.4 µm)	42.1	m²/kg	
Heat Activation Temperature	102	°C	

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