

INTEGRAL™ 709

Polyolefin Adhesive Film
The Dow Chemical Company

Message:

INTEGRAL™ 709 is a multipurpose, low melt, low viscosity film designed to act as the tie layer between porous substrates, (e.g., fabric to foam adhesion). INTEGRAL 709 is available corona treated (with manufacturing approval).
New experimental films are continually being developed. Please discuss your particular application needs with your Dow representative.

General Characteristics:

Heat Activation Point: 185°F (85°C)

Yield: 205 sq ft/lb/mil (41.9 m²/kg/25 µm)

Available Colors: Clear

Gauge Range: 2.0-8.0 mil (50-200 µm)

Width Range: 12-76 in (304-1930 mm)

General Information			
Appearance	Clear/Transparent		
Forms	Film		
Films	Nominal Value	Unit	Test Method
	51		
Film Thickness - Tested	100	µm	
Film Thickness - Recommended / Available	2.0-8.0 mil (50-200 µ)		
Secant Modulus			ASTM D882
2% Secant, MD : 51 µm	107	MPa	
2% Secant, MD : 100 µm	86.2	MPa	
2% Secant, TD : 51 µm	121	MPa	
2% Secant, TD : 100 µm	103	MPa	
Tensile Strength			ASTM D882
MD : Yield,51 µm	9.65	MPa	
MD : Yield,100 µm	9.65	MPa	
TD : Yield,51 µm	8.27	MPa	
TD : Yield,100 µm	8.27	MPa	
MD : Break, 51 µm	19.7	MPa	
MD : Break, 100 µm	19.7	MPa	
TD : Break, 51 µm	12.4	MPa	
TD : Break, 100 µm	11.7	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 µm	200	%	
MD : Break, 100 µm	350	%	
TD : Break, 51 µm	400	%	
TD : Break, 100 µm	350	%	

Elmendorf Tear Strength		ASTM D1922
MD : 51 μm	30	g
MD : 100 μm	80	g
TD : 51 μm	250	g
TD : 100 μm	500	g
Film Width	30.48 to 193.04	cm
Yield (25.0 μm)	41.9	m^2/kg
Heat Activation Temperature	85	$^{\circ}\text{C}$

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