

# SARANEX™ 451

Coextruded Barrier Film

The Dow Chemical Company

Message:

SARANEX™ 451 Clear Coextruded Barrier Film is a multi-layer film designed for use in packaging, converting and industrial liner applications.

General Characteristics:

Excellent barrier to oxygen, water vapor, flavors and aromas

Good clarity

Heat sealable

Complies with U.S. FDA requirements for food contact applications

Complies with EU, No 10/2011

Contact your Dow representative for more information on food contact compliance

Available Widths: 18 to 44 inches or 54 to 88 inches (460 to 1115 mm or 1370 to 2235 mm)

Available Core Sizes: 3 or 6 inch cores

Treatment: One side corona treatment available

General Information			
Agency Ratings	EU No 10/2011		
	FDA Food Contact, Unspecified Rating		
Forms	Film		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.20		Internal Method
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Thickness - Recommended / Available	1.5 mil (38.1 µ)		
Tensile Strength			ASTM D882
MD : Break, 38 µm	26.2	MPa	
TD : Break, 38 µm	19.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	400	%	
TD : Break, 38 µm	440	%	
Oxygen Transmission Rate (23°C, 50% RH, 38 µm)	7.8	cm³/m²/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 90% RH, 38 µm)	5.1	g/m²/24 hr	ASTM F1249
Heat Seal Strength			ASTM F88
177°C, 38.1 µm <sup>1</sup>	420	N/m	
MD, 30 psi, 1.0 sec : 177°C, 38.1 µm	560	N/m	
Yield (38.1 µm)	25.7	m²/kg	ASTM D4321
NOTE			
1.	TD, 30 psi, 1.0 sec		

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