

SARANEX™ 450

Coextruded Barrier Film

The Dow Chemical Company

Message:

SARANEX™ 450 Coextruded Clear Barrier Film is a multi-layer film designed for use in packaging, laminating, converting, and industrial liner applications. It is available as 1.0 mil, medium slip, natural color, T-1 or TX, in widths from 10 to 80 inches (254 to 2032 mm). This product is a multi-layer film. The components of each layer may be used for food contact applications under the authority of one or more of the following FDA requirements:

U.S. FDA 21 CFR 174.5
U.S. FDA 21 CFR 175.105
U.S. FDA 21 CFR 176.170
U.S. FDA 21 CFR 176.180
U.S. FDA 21 CFR 177.1340
U.S. FDA 21 CFR 177.1350
U.S. FDA 21 CFR 177.1520
U.S. FDA 21 CFR 177.1990
U.S. FDA 21 CFR 178.2010
U.S. FDA 21 CFR 178.3297
U.S. FDA 21 CFR 178.3860
U.S. FDA 21 CFR 181.24

For specific FDA information concerning a layer, please contact your Dow representative.

General Information			
Additive	Medium Slip		
Agency Ratings	FDA 21 CFR 174.5		
	FDA 21 CFR 175.105		
	FDA 21 CFR 176.170		
	FDA 21 CFR 176.180		
	FDA 21 CFR 177.1340		
	FDA 21 CFR 177.1350		
	FDA 21 CFR 177.1520		
	FDA 21 CFR 177.1990		
	FDA 21 CFR 178.2010		
	FDA 21 CFR 178.3297		
	FDA 21 CFR 178.3860		
	FDA 21 CFR 181.24		
Appearance	Natural Color		
Forms	Film		
Processing Method	Coextruded Film		
	Extrusion Coating		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	25	μm	
Film Thickness - Recommended / Available	1.0 mil (25 μ)		
Tensile Strength			ASTM D882
MD : Break, 25 μm	26.2	MPa	
TD : Break, 25 μm	18.6	MPa	
Tensile Elongation			ASTM D882
MD : Break, 25 μm	400	%	
TD : Break, 25 μm	550	%	
Oxygen Permeability (23°C, 25 μm, 50% RH)	0.33	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (25 μm, 38°C, 90% RH)	0.14	g·mm/m ² /atm/24 hr	ASTM F1249
Heat Seal Strength ¹ (177°C, 25.4 μm)	890	g/2.5 cm	Internal Method
Yield - Calculated (25.4 μm)	39.3	m ² /kg	Internal Method
NOTE			

1. 1 sec preheat, 1 sec dwell, 30 psi

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

