

TRYCITE™ 1003U

Polystyrene Film
The Dow Chemical Company

Message:

TRYCITE™ 1003U Polystyrene Film is a clear, oriented, printing and laminating grade polystyrene film. Available in thicknesses of 1.25, 1.5, 2.0, 2.5 and 3.0 mil.

General Information			
Forms	Film		
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	1.25; 1.5; 2.0; 2.5; 3.0 mil (32; 38; 51; 63; 76 µ)		
Secant Modulus			ASTM D882
1% Secant, MD	2960	MPa	
1% Secant, TD	2960	MPa	
Tensile Strength			ASTM D882
MD : Yield	72.4	MPa	
TD : Yield	72.4	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm	30	%	
MD : Break, 38 µm	32	%	
MD : Break, 51 µm	40	%	
MD : Break, 64 µm	46	%	
TD : Break, 32 µm	6.0	%	
TD : Break, 38 µm	10	%	
TD : Break, 51 µm	14	%	
TD : Break, 64 µm	11	%	
Shrink Tension			Internal Method
MD : 135°C, < 38.1 µm	4.14	MPa	
MD : 135°C, > 38.1 µm	3.10	MPa	
TD : 135°C	0.758	MPa	
Yield			ASTM D4321
31.8 µm	30.0	m ² /kg	
38.1 µm	25.0	m ² /kg	
50.8 µm	19.0	m ² /kg	
63.5 µm	15.0	m ² /kg	
76.2 µm	12.0	m ² /kg	
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	165		ASTM D2457
Haze	0.50	%	ASTM D1003

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