

ENLIGHT™ 4145F

Polyolefin Encapsulant Film

The Dow Chemical Company

Message:

ENLIGHT 4145F Polyolefin Encapsulant Film is intended for use in Photovoltaic applications. This film is suitable for rigid modules that use crystalline silicon or thin film technologies, as well as flexible module configurations.

General Characteristics:

Optical Transmission: >90%

Lower UV cutoff: 285 nm

Thickness: 18 - 30 mil (457 - 762 µm)

Width: 20 - 86 in (510 - 2180) mm

General Information			
Forms	Film		
Films	Nominal Value	Unit	Test Method
Film Thickness	457	µm	Internal Method
Adhesion to Glass ¹	> 7.2	kN/m	Internal Method
UV Cutoff - E-5	2.79	cm	
Tensile Elongation			ASTM D882
MD : Break	> 500	%	
TD : Break	> 500	%	
Water Vapor Transmission ²	3.3	g/m ² /24 hr	ASTM F1249
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 2.0E+16	ohms · cm	ASTM D257
Dielectric Strength	590	kV/mm	ASTM D149
Optical	Nominal Value	Unit	Test Method
Refractive Index ³	1.480		Internal Method
Transmittance ⁴	> 90.0	%	Internal Method
NOTE			
1.	180 degree peel test, avg.		
2.	Measured at 38°C and 100% RH		
3.	Measured on an ellipsometer		
4.	From 450 nm to 1,200 nm, total hemispherical light transmission		

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