

3M™ Double-Coated Polyethylene Foam Tape P7100B

Product Description

3M™ Double-Coated Polyethylene Foam Tape P7100B combines a conformable closed cell foam with a high-strength acrylic adhesive, providing good initial tack and offering high ultimate adhesion to a wide variety of surfaces.

Typical Physical Properties

(Data not for specification purposes)

Properties	Typical Values	
Color	Black	
Tape Thickness	1.05 ± 0.2 mm	
Adhesive Type	Modified Acrylic	
Foam Type	PE Foam	
Release Liner	Type	PP Film
	Thickness	112 ± 15 μm
	Color	Blue

Dynamic Adhesion Performance	Unit	Value
90° Peel Adhesion	N/25 mm	>12.5 Cohesion

Static Shear	Unit	Value
Weight (grams) that 6.25 cm ² will hold 10,000 minutes (7 days)	68°F (20°C)	500 g

90° Peel Adhesion – A.F.E.R.A. 5001



After 20 seconds, polished steel, separation speed 100 mm/min. at RT.

Static Shear – A.F.E.R.A. 5012



After 20 min. dwell, polished steel, >10,000 min., 500 g/6.25 cm² bonded area.

Application Ideas

Foam Tape P7100B can be used for solar module frame bonding.

Note that, due to variation in the process of tape application and the requirements of different environments, Foam Tape P7100B should be tested for the conditions of a given application prior to use.

Application Guidelines

Temperature, humidity and pressure can impact the initial adhesion characteristics.

- **Temperature:** Suggested application temperatures are 21°C to 38°C (70°F to 100°F).
- **Humidity:** The suggested humidity target for the application is below 90% R.H. Solar
- **Pressure:** Suggested pressurization is 20 N/cm². Minimum suggested pressurization is 10 N/cm².

To a large extent, the impact of these variables depends on the substrate. Use of this product under conditions outside the recommended ranges can have either positive or negative effects on tape performance, depending on the specific substrate and application.

Slitting Tolerance

Standard slitting tolerance ± 0.2 mm

Core Size

Available on a 76.2 mm ID Core

UL Component Recognition

UL recognized, tested in accordance with UL746C, listed under file E316895.

Shelf Life

12 months from date of manufacture when stored at 23°C ± 8°C and 50% relative humidity and protected from UV light and dust.

Note: The technical information and data in this document should be considered representative or typical only and should not be used for specification purposes.

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