



## FM 9215B

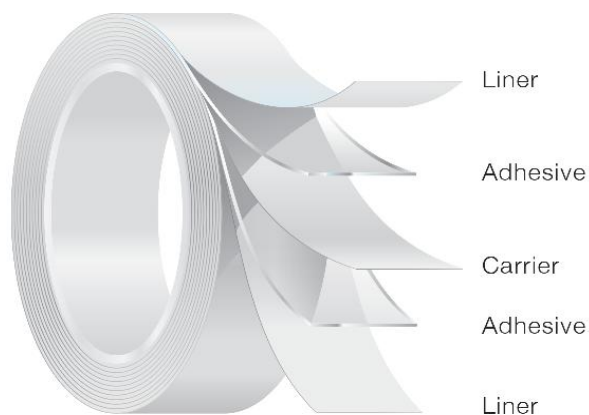
FM 9215B is a black foam tape designed for hi-end mounting applications in smart devices and electronics such as mobile phone assembly window/lens bonding. FM 9215B is suitable for industrial applications where high temperature, UV resistance, good moisture and dimensional stability are required. The thin tape caliper is ideal for thinner designs.

### FEATURES:

- Crosslinked elastomeric adhesive
- Foamed elastomeric carrier
- Tape thickness of 5.9 mil / 150 um

### BENEFITS:

- High adhesion on a variety of substrates, including low surface energy substrates, like PE
- Excellent cohesion provides high dynamic shear and push out force
- High temperature and UV resistance
- Good moisture resistance and dimensional stability
- Thin caliper of the tape makes it suitable for thinner design concepts



### CONSTRUCTION:

#### Liner 1:

Polyester

#### Adhesive 1 Liner:

Crosslinked Elastomer

#### Carrier:

Foamed Crosslinked Black Elastomer

#### Adhesive 2 Unwind:

Crosslinked Elastomer

#### Liner 2 Easy:

Polyester

**FM 9215B****Adhesive Properties:**

Thickness		Typical Values		
		Test Method(s): PSTC-133	US Mils	MM's
				Microns (µm)
Liner 1:			2.0	0.05
Carrier & Adhesive:			5.9	0.15
Liner 2 Easy:			2.0	0.05
Total Caliper:			9.9	0.25

**PEEL ADHESION**

		Test Method(s): PSTC-101, ASTM D 3330			
2 mil PET 180° 12" min					
Substrate			Lbf / In	US Oz / In	N / Meter
SS	Liner	1 hr dwell	7.7	123	1348
	Liner	24 hr dwell	7.7	123	1348
ABS	Liner	1 hr dwell	5.9	94	1033
	Liner	24 hr dwell	6.3	101	1103
Polycarbonate	Liner	1 hr dwell	6.8	109	1191
	Liner	24 hr dwell	8.3	133	1453

**DYNAMIC SHEAR**

		Test Method(s): ASTM D 1002			
SS 1" sq (6.5 cm <sup>2</sup> )					
Substrate			Lbf / In	US Oz / In	N / Meter
SS	Liner	24 hr dwell	181.0	2896	32

**STATIC SHEAR**

		Test Method(s): PSTC-107, ASTM D 3654			
SS 1" sq (6.5 cm <sup>2</sup> ) 5.5 lbs (2.5 kg)					
Substrate		Min to Fail			
SS	Liner	24 hr dwell	> 10,000		

**TEMPERATURES**

	° F	° C
Min Application Temp	50 ° F	10 ° C
Min Continuous Service Temp	-40 ° F	-40 ° C
Max Continuous Service Temp	212 ° F	-40 ° C
Short Term Operating Temp	248 ° F	100 ° C

THE LISTED VALUES ARE TYPICAL AND NOT INTENDED TO SERVE AS PRODUCT SPECIFICATIONS

**APPLICATION TECHNIQUES**

- It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease or oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (film / rigid) surface achieves different performance

**STORAGE / SHELF LIFE**

- One year when stored at 64-72°F (18-22°C) / 30-70% relative humidity, out of direct sunlight and in original packaging.

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