

PORON® ThinStik™ Foams Preliminary Data Sheet

FAMILY OF SELF-ADHESIVE SOLUTIONS

PRODUCT OFFERINGS

ThinStik ShockSeal™	ThinStik 92-09	ThinStik 92-12	ThinStik Soft Seal	ThinStik Soft Seal
PORON 79-09021	PORON 92-09020	PORON 92-12020	PORON 15-06021	PORON 15-06030
+ Supported Adhesive	+ Supported Adhesive	+ Supported Adhesive	+ Supported Adhesive	+ Supported Adhesive

TYPICAL PROPERTIES

	Property		Method		Detail		Unit		Value									
	Description		Color (code)		Density		Tolerance		Compression Force Deflection		Compression Set							
Urethane	Description								79TS1-09021		92TS1-09020		92TS1-12020		15TS1-06021		15TS1-06030	
	Color (code)								Black (04)		Black (04)		Black (04)		Gray (90)		Gray (90)	
	Density		ASTM D 3574-95		Test A		lb/ft³ (kg/m³)		9 (144)		9 (144)		12 (192)		6.5 (104)		6.5 (104)	
	Tolerance						± 1 (16)		± 1 (16)		± 2 (32)		± 1 (16)		± 1 (16)		± 1 (16)	
	Compression Force Deflection		Strain rate = 0.2" / minute		@ 25% Deflection		typical psi (kPa)		1.06 (7.31)		0.80 (5.52)		1.63 (11.2)		0.46 (3.2)		0.31 (2.15)	
	Compression Set		ASTM D 3574-95		Test D @ 73°F (23°C) Test D @ 158°F (70°C)		% max		5 10		5 10		5 10		5 10		5 10	

	Property		Method		Detail		Unit		Value	
	Peel Adhesion		ASTM D1000 180° Peel		20 min @ RT / 72 @ hrs RT to Stainless Steel to Polypropylene to Polycarbonate to ABS to Acrylic		oz/in (N/25mm)		28.9 (8.0) / 32.7 (9.1) 28.0 (7.8) / 28.7 (8.0) 30.7 (8.5) / 36.2 (10.1) 29.4 (8.2) / 34.8 (9.7) 29.5 (8.2) / 34.6 (9.6)	
Supported Adhesive	Release Adhesion		ASTM D1000 180° Peel		Room Temp 96 hr @ 66°C/ 80% RH		gram / in		9.4 10.6	
	Tack		ASTM D 2979 (1 sec dwell)		Room Temp 96 hr @ 66°C/ 80% RH		grams		424 411	
	Tensile		ASTM D 882		Room Temp MD / CMD 96 hr @ 66°C/ 80% RH		lb (kg)		12.0 (5.4) / 9.1 (4.1) 11.4 (5.1) / 11.0 (5.0)	
	Elongation		ASTM D 882		Room Temp MD / CMD 96 hr @ 66°C/ 80% RH		%		78 / 32 74 / 66	
	Shelf Life				from date of manufacture		months		12	

Adhesive Information

PORON® ThinStik™ materials utilize an acrylic pressure sensitive adhesive manufactured to Rogers' specifications. This adhesive provides reliable bonding to a wide variety of substrates, exhibits high quality optical clarity, withstands a wide range of temperatures and is resistant to chemical exposure.

Storage Information

PORON ThinStik materials have a shelf life of 12 months from the date of manufacture when stored at room temperature. Storage in the original packaging, located in a dry, cool environment is recommended.

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PRODUCT CONSTRUCTION

PORON ThinStik ShockSeal 79-09 Foam (79TS1-09021)

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
<i>Urethane Foam</i>	PORON ShockSeal Series	0.48	19	± 0.1	± 4.0
<i>Supported Adhesive</i>	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
Total Construction*	Foam, PET, Adhesive	0.52	20.5	± 0.1	± 4.0

PORON ThinStik 92-09 Foam (92TS1-09020)

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
<i>Urethane Foam</i>	PORON 92-09 Series	0.46	18	± 0.1	± 4.0
<i>Supported Adhesive</i>	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
Total Construction*	Foam, PET, Adhesive	0.50	19.5	± 0.1	± 4.0

PORON ThinStik 92-12 Foam (92TS1-12020)

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
<i>Urethane Foam</i>	PORON 92-12 Series	0.46	18	± 0.08	± 3.0
<i>Supported Adhesive</i>	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
Total Construction*	Foam, PET, Adhesive	0.50	19.5	± 0.08	± 3.0

PORON ThinStik Soft Seal Foam (15TS1-06021)

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
<i>Urethane Foam</i>	PORON Soft Seal Series	0.48	19	± 0.1	± 4.0
<i>Supported Adhesive</i>	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
Total Construction*	Foam, PET, Adhesive	0.52	20.5	± 0.1	± 4.0

PORON ThinStik Soft Seal Foam (15TS1-06030)

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
<i>Urethane Foam</i>	PORON Soft Seal Series	0.72	28.5	± 0.1	± 4.0
<i>Supported Adhesive</i>	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
Total Construction*	Foam, PET, Adhesive	0.76	30	± 0.1	± 4.0

*Note: A liner comes attached to the foam that is removed prior to use. The liner thickness is not included above.

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