

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				
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)
	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
Supported Adhesive	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)
	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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