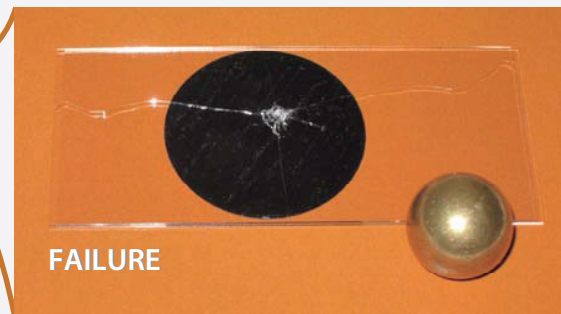
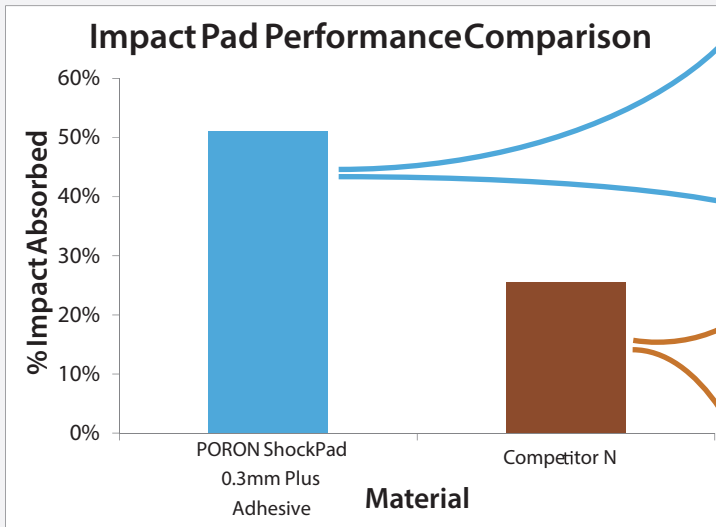


# PORON® ShockPad 0.3mm Plus Adhesive

New mobile internet devices are as slim as ever, and designers are being asked to fit even more features and gadgets into these tiny packages. As part of space-saving designs, the display, the printed wiring board, and other electrical components are compacted into very thin spaces. Unfortunately, these components often lack proper impact protection technology. How can Rogers help?

## The Solution: PORON® ShockPad Foam



As you can see in the graph above, **PORON ShockPad Foam absorbs twice as much force as equivalent competitive material** in real-life drop conditions. This could mean the difference between a device surviving a fall or a device's LCD screen and internal components failing on impact.

The impact data and images above were compiled using the following test:

**Smartphone Impact Simulation**

Impacting Object: 30.8 g brass ball

Height of Drop: 0.3 meters

Display Module: 0.5 mm glass on both sides of foam.

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## Data Sheet: PORON® ShockPad 0.3mm Plus Adhesive Typical Values

	Property	Method	Detail	Unit	Value
Urethane	Compression Force Deflection	Strain rate = 0.2"/minute	@ 25% Deflection	typical, psi (kPa)	4.34 (29.9)
	Compression Set	ASTM D 3574-95	Tested @ 70°C (158°F)	Typical% Maximum %	2 10
	Color (Code)				Black (04)
Supported Adhesive	Peel Adhesion	ASTM D 1000 180° Peel	To Stainless Steel To Polypropylene To PolyCarbonate To ABS To Acrylic	N/25mm (oz/in)	20 min @ RT/ 72 hrs @ RT 8.0 (28.9) / 9.1 (32.7) 7.8 (28.0) / 8.0 (28.7) 8.5 (30.7) / 10.1 (36.2) 8.2 (29.4) / 9.7 (34.8) 8.2 (29.4) / 9.7 (34.8)
	Release Adhesion	ASTM D 1000 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	kg (lb)	5.4 (12.0) / 4.1 (9.1) 5.1 (11.4) / 5.0 (11.0)
	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

Material	Description	Thickness		Tolerance	
		mm	mil	mm	mil
Urethane Foam	PORON ShockPad	0.27	10.5	± 0.076	± 3.0
Supported Adhesive	PET and Adhesive	0.038	1.5	+ 0.005/- 0.01	+ 0.2/- 0.4
<b>Total Construction*</b>	<b>Foam, PET, Adhesive</b>	0.30	12	± 0.076	± 3.0

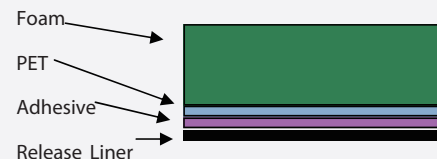
\* The Liner is typically removed by the end user & not included as part of the total thickness

### Storage Information

PORON ShockPad 0.3mm Plus Adhesive material has 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.

**Note:** All unit conversions are approximate. Additional technical information is available.

### 0.3mm Product Construction





**SECON**  
rubber  
and  
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