

PORON® Urethane for Handheld Devices

THE SOLUTION FOR RELIABLE DESIGNS







RIC
ROGERS INOAC CORPORATION

 **ROGERS**
CORPORATION

WHY DO DESIGNERS CHOOSE PORON® URETHANE FOAMS FOR HANDHELD ELECTRONICS?

PORON® Urethanes are unique, microcellular foams that offer the winning solution for filling gaps, providing seals, and protecting components in mobile applications.

 Low Compression Set Resists collapse & extends the life of devices	 Excellent Energy Absorption Protects devices from impact damage	 No Restricted Substances Compliant materials allow for compliant devices
 High Sealability Protects device components from dust, water & other contaminants	 High Fabricating Efficiency Experience higher yields through clean and accurate processing	 Outstanding Conformability Account for variable tolerances with versatile gap filling capability

WHAT TYPES OF PORON MATERIAL ARE AVAILABLE?

PORON Microcellular Urethane foams offer a broad range of design solutions to meet application needs.

	RIC	Rogers	Type	Description	Key Properties
THIN & SOFT	SS	Soft Seal (15 Series)	Softest	Designed for superior sealing. Lowest density PORON offering.	
	SR-S	92 Series	Slow Recovery	Extra soft, slow rebound, energy absorbing foam with the lowest closure force.	
	ASRS	-	Antistatic	Slow rebound material with antistatic properties.	
	-	ThinStik™ (92 Series)	Self-Adhesive	Self-adhesive, slow rebound material. Most compressible PORON offering.	
FLAME RETARDANT	MS	30 Series	Soft	Soft and easily compressed for use where flexibility is a key requirement.	
	ML	40 Series	Soft	Soft material for a wide variety of applications.	
	MH	50 Series	Firm	Hard material used for managing high energy impact with gasketing needs.	
LOAD BEARING / FOOT PAD	H	-	Firm	Hard material with a good overall balance.	
	HH	-	Firmer	Harder than 'H' type and provides very high load bearing capability.	
	FH	-	Very Firm	Load bearing capability higher than that of the HH type.	
	MX	-	Firmest	Hardest offering, load bearing property equivalent to that of solid materials. Also provides excellent gripping forces due to the HF coating.	

* Excellent Grip applies to HH-48C, FH-48C, and MX-48HF materials only

LEGEND

 Flame Retardant	 Low Temp Dependency	 Antistatic	 Low Outgassing	 Slow Rebound	 Excellent Grip	 Supported	 High Resiliency	 Vibration Isolation
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WHERE IS PORON URETHANE MATERIAL TYPICALLY USED?

Designers worldwide rely on the high performance qualities of PORON Urethanes in gaskets and seals to protect sensitive components.



WHICH PORON MATERIAL IS BEST FOR MY APPLICATION?

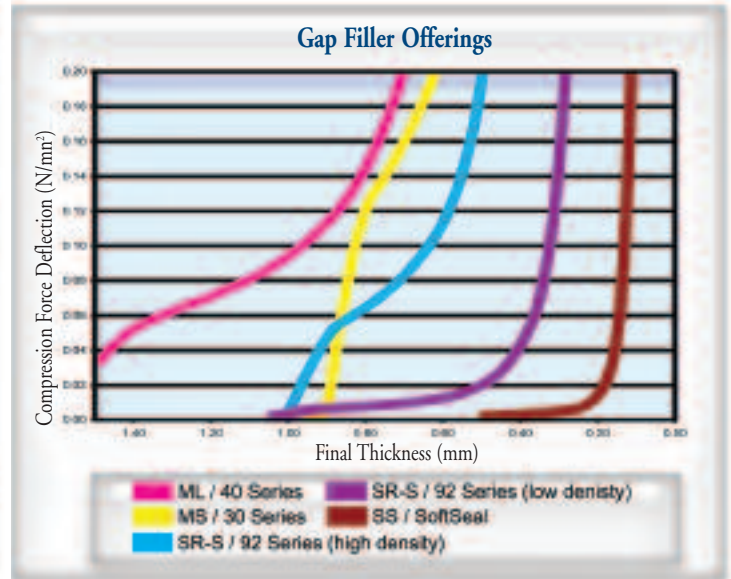
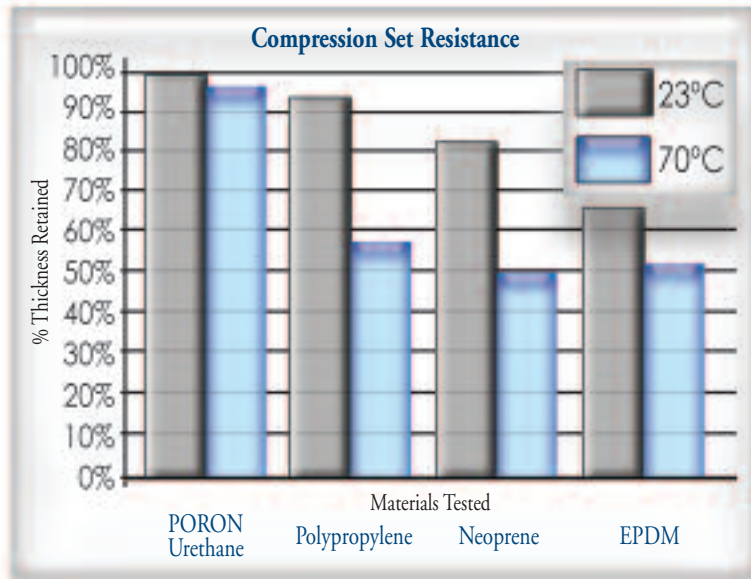
PORON Urethane solutions are specified in a wide variety of applications where function and quality are critical.

Markets	
 Cell Phone	
 PDA	
 Computer	
 Digital Camera	
 Gaming	

Application Area	Application Need	Thin & Soft	Flame Retardant	Load Bearing
LCD / Caller ID Displays	Dust Sealing Shock Absorption Gap Filling	✓		
Camera Module	Shock Absorption Hold Component in Place	✓		
Connector	Hold Component in Place Maintain Constant Contact		✓	
Battery	Shock Absorption Hold Component in Place	✓		
Microphone / Speaker	Gap Filling Tonal Quality Dust Sealing	✓		
Footpad	Anti-Slip Vibration Isolation			✓

HOW DOES PORON URETHANE PERFORM?

Superior product characteristics make PORON Urethanes the solution for reliable designs.



Long term sealing performance is achieved through the excellent compression set resistance properties of PORON Urethane Materials. Tests prove PORON materials retain over 95% of their original thickness under extreme conditions.*

A wide range of compressive performance options are available from the different series of PORON Urethanes. The tight thickness tolerance of PORON materials further enhance design capabilities.**

* Material compressed 50% for 22 hours at 70°C

** Please contact a PORON sales representative for specific product information

WHERE CAN I PURCHASE PORON URETHANE MATERIALS?

PORON Urethane materials are only manufactured by Rogers INOAC Corporation (Japan) and Rogers Corporation (USA).

 Imitation material can put your design at risk. Get Real PORON Urethanes, No Substitutions!



Contact Information

U.S.	Rogers High Performance Foams
Japan	Rogers INOAC Corporation
Belgium	Rogers BVBA
Taiwan	INOAC International Taiwan
Singapore	IRS Singapore
Shanghai	Rogers (Shanghai) International Trading Co., Ltd.
Beijing	Rogers (Shanghai) International Trading Co., Ltd.
Shenzhen	Rogers (Shanghai) International Trading Co., Ltd.
Hong Kong	INOAC Hong Kong Ltd.
Korea	RIC Seoul Office

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