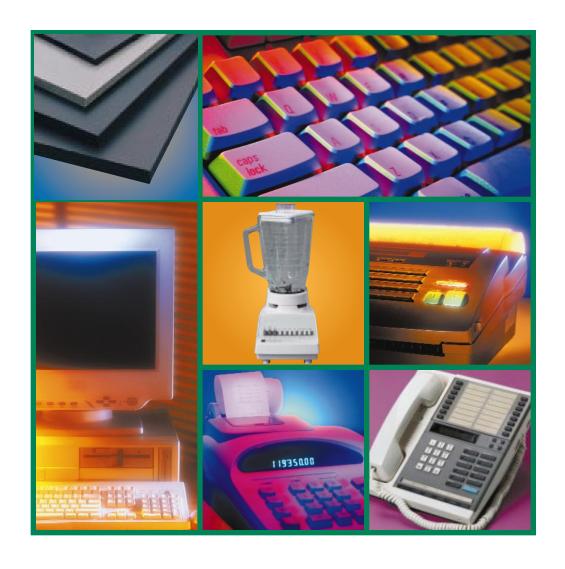
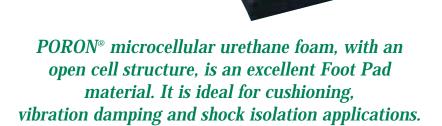


Foot Pad Materials









Excellent Grip

Foot Pads made of PORON urethane will not slide or skid when in contact with nearly any surface. PORON foam with a High Coefficient of Friction offers ideal skidproof protection.

High Energy Absorption

The excellent shock absorption and vibration damping qualities of PORON urethane Foot Pads will protect your product from damage.

Durability

PORON urethanes have an extremely low compression set. This means durability — adding to the life of your product. In addition PORON urethanes will not dry out and crack.

Bondability

PORON urethanes have very high bond strength, and can be bonded to a variety of surfaces. For even greater bond strength, various PET backed materials are also available.

Safe on Virtually Any Surface

Because PORON urethanes do not have plasticizers to migrate, they will not mark contacted surfaces. PORON urethane is also resistant to a wide variety of chemicals.

PORON urethane foams are available in a variety of firmnesses and thicknesses to produce foot pads that are ideal for many types of applications in communications, electronics, office equipment, audio visual components and any type of environment where cushioning, energy absorption or sound damping is required.

Ideal for Many Applications

Appliances

Calculators

Key Boards

Lap Top Computers

Personal Computers

Computer Accessories

Phone Battery Chargers

Printers

Stereos

VCRs

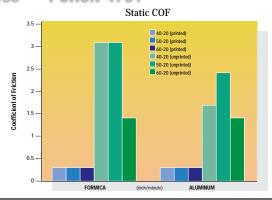
Wireless Phones

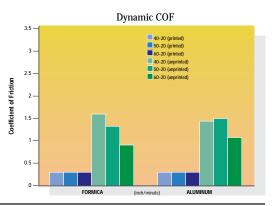
And More

Material Properties — PORON 4701

Coefficient of Friction

Test Method: ASTM D 1894



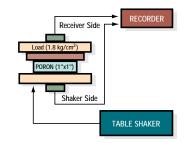


Vibration Damping

Test Method:

1" x 1" square samples subjected to 1.8 kg/cm² loading

Input: 0.001 G2Hz, 5Hz-2000Hz

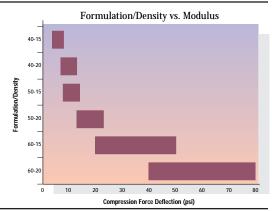




Compression Force Deflection

Test Method:

0.2"/min. Strain Rate Force measured @ 25% deflection.



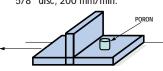
Bondability

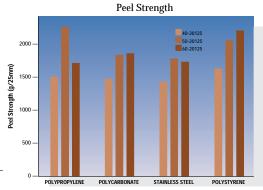
Test Method: Peel Strength TMI Release & Adhesion Tester Sample size: 1/2" wide strips 24 hr. dwell time, 180°C peel

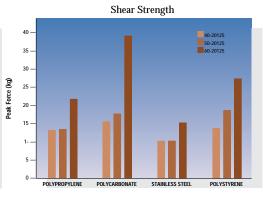
angle, 12"/min.

Sample size: 1/2" wide strips

Test Method: Shear Strength 5/8" disc, 200 mm/min.



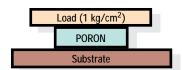




Contamination

Test Method:

Samples: PORON 4701-40, -50 & -60 Load: 3" disc subjected to 1 kg/cm



Copper Formica Glass Polycarbonate Polypropylene Polystyrene Stainless Steel Wood	CONTACT MATERIALS	TEST RESULT
Glass No Signs Of Polycarbonate Contamination Polystyrene Stainless Steel		
Polycarbonate Roo Signs Of Contamination Polystyrene Stainless Steel		
Polypropylene Contamination Polystyrene Stainless Steel		No Signs Of
Polystyrene		Contoningtion
Stainless Steel	Polypropylene	Contamination
Stainless Steel	Polystyrene	
Wood		
wood	Wood	

Typical Physical Properties

Property	Test Method				PORON	® Cellular	Urethane Material			
		4701-40			4701-50			4701-60		
Density , lb./ft³ (kg/m³) Tolerance	ASTM D3574 Test A	15 (240) ±1		15 (240)	20 (320) ±10	30 (480)	15 (240)	20 (320)) ±10	25 (400)	
PHYSICAL										
Standard Color, (Code)		Black	(04)		Black (04)			Black (04)		
Special Colors Available										
Compression Set, % max.	ASTMD3574 Test D @ 73°F (23°C)	2			2			10		
Compression Force Deflection: psi	0.2"/min. Strain Rate Force	4-8	7-13	8-14	13-23	30-60	15-45	35-85	45-125	
(kPa)	Measured @ 25% Deflection	(27-55)	(48-90)	(55-97)	(90-159)	(207-415)	(104-311)	(242-587)	(311-864)	
Dimensional Stability,	22 Hrs. @ 176°F (80°C)	±2	.5		±2.5			±5		
%, max. change	in a forced air oven									
Flammability	UL 94HBF	Pass	Pass	Pass	Pass	Pass≥ 0.031"		Pass≥ 0.062		
Hardness, Durometer	Shore "O"	12	17	18	24	55	42	55	63	
Outgassing, Total Mass Loss TML %	ASTM E595 24 Hrs. @ 257°F	0.7	8.0	0.6	8.0	0.9	0.6	0.7	0.7	
Collected Volatile Condensable Materials (CVCM), %	(125°C) @ < 7 x 10³ Pa	0.04	0.04	0.04	0.05	0.06	0.05	0.02	0.03	
Water Vapor Regain (WVR), %		0.3	0.3	0.1	0.3	0.4	0.5	0.5	0.6	
Tear Strength, pli, min. (kN/m)	ASTM D624 Die C	3 (0.5)	5 (0.9)	6 (1.1)	10 (1.8)	13 (2.3)	14 (2.4)	18 (3.1)	25 (4.3)	
Tensile Elongation, %, min.	ASTM D357 Test E	` ′	100	100	100	90	50	40	40	
Tensile Strength, psi, min. (kPa)	ASTM D357 Test E	40 (276)	75 (518)			200 (1382)		200 (1382)) 200 (1382	
Temperature Resistance										
Cold Flexibility	MIL-P-12420C @ -40°F (-40°C)	Pas	SS		Pass			Pass		
Embrittlement	ASTM D746		(-40°C)	-40°F (-40°C)			-3°F (-16°C	;)		
Recommended Constant Use, max.		158°F			158°F (70°C	-	158°F (70°C)			
Recommended Intermittent Use, max.			(121°C)		250°F (121°	•		250°F (121°	•	
			((-,			-,	
Surface Resistivity, ohm/sq.	ASTM D257	2 x 10 ¹²		7 x 10 ¹²			3 x 10 ¹²			
Volume Resistivity, ohm/cm	ASTM D257	1 x 1		2 x 10 ¹²			7 x 10 ¹²			
Dielectric Constant, K' ("DK")	ASTM D150 measurements @ 72°F (22°C) relative humidity 50% for 24 Hrs.	1.7	<i>'</i> 1	1.63		1.60				
Dissipation Factor, tan D ("DF")	ASTM D150	0.0)5		0.05			0.05		
Dielectric Strength, volts/mil	ASTM D149	50)		50			50		
Corrosion Resistance	AMS 3568 ASTM G21-96		Pass Pass		-					
Mildew/Bacteria Resistance Ozone Resistance	ASTW G21-96 GM 4486P	Good Pass		Good Pass		Good				
Skin Contact	Schwartz and Peck	No Irri		No Irritation		Pass No Irritation				
JAM COMAC	Human Patch Test	INU IIII	เนเเปไ		NO IIIII OI			ivo iiiilali0i		
Staining	ASTM D925-88	No S	tain		No Stain			No Stain		
UV Resistance	AMS G53	God			Good			Good		
Water Absorption,	7.1191.0 0.00	000	J. J		Joou			Good		
% weight gain, typical	AMS 3568	2			2			2		
Immersion Testing,					_			2		
% weight gain typical	ASTM 570	19	10	13	8	5	19	20	6	
norght gain typiodi			10		Ü	Ü	'	20	Ü	
Static Solvent Resistance	Specimens immersed for 10	No tackiness		No tackiness		No tackiness				
	min. in 75% Naptha, 25%	or sur	rface		or surface			or surface		
	1, 1, 1-trichloroethane, then	deterio	ration.		deterioration	١.		deterioration	n.	
	allowed to dry completely.									
Additional Solvent Resistance	Antifreeze & Water 50/50	No tack	kiness		No tackines	S		No tackines	s	
	Windshield Washer Solution	or sur	rface		or surface			or surface		
	Electrical Grease	deterio	ration.		deterioration	١.		deterioration	n.	
	 Soap & Water 50/50 									

The above represents typical and preliminary values. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The relative merits of materials for a specific application should be determined by your evaluation.



PORON 4701-40

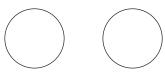
- Low modulus, soft, suitable for shock absorbing applications.
- High coefficient of friction available.

PORON 4701-50

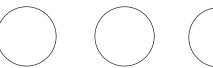
- High modulus grade, firm, suitable for standard foot pad applications.
- High coefficient of friction available.

PORON 4701-60

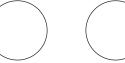
- Very high modulus grade.
- Very firm, will not collapse under heavy load.



15 PCF 20 PCF



15 PCF 20 PCF 30 PCF







15 PCF 20 PCF 25 PCF

Product Availability

	PORON Urethane Formulation									
		1-40 oft)	4701-50 (Firm)			4701-60 (Very Firm)				
Standard Color	Black	(04)		Black (04)			Black (04)			
Density	15 PCF	20 PCF	15 PCF	20 PCF	30 PCF	15 PCF	20 PCF	25 PCF		
Tolerance, %	±10%	±10%	±10%	±10%	±10%	±10%	±10%	±10%		
Thickness: 1/32" (0.031") 0,79 mm					•		•	•		
Thickness: 3/64" (0.045") 1,14 mm					•		•	•		
Thickness: 1/16" (0.062") 1,57 mm		•		•	♦	•	•	*		
Thickness: 1/8" (0.125") 3,18 mm	•	•	*	•		•	•			
Thickness: 1/4" (0.250") 6,35 mm	•	•	•	•		•	*			

^{*} Please ask about additional formulations, colors, and thicknesses.

• Standard Product

♦ Non-Standard Product

PORON industrial materials are produced on a "make to order" basis. Although off-the-shelf stock may be available for standard grades and thicknesses, normal lead time is three weeks. Check with your Customer Service Representative for your specific requirements.

ROGERS

SINCE 1832

Rogers Corporation

High Performance Elastomers Division

PORON Materials Unit 245 Woodstock Road Woodstock, CT 06281-1815 U.S.A.

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The Woodstock, CT facility is registered to ISO 9002 Certificate No. 3843.

Rogers, N.V.

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Rogers Inoac Corporation

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Tel: 81-52-682-5851 Fax: 81-52-682-1720

Rogers Southeast Asia, Inc.

21st Floor, Unit 2 118 Connaught Road West Sheung Wan Hong Kong

Tel: 852-2549-7806 Fax: 852-2549-8615