poron®
ALWAYS THERE

MATERIAL SELECTION GUIDE
INDUSTRIAL APPLICATIONS

ROGERS CORPORATION

For product designers and engineers, Rogers Corporation is the elastomeric materials solutions partner of choice when quality, innovation, and collaborative support are critical to design optimization and product functionality.

Rogers' materials are designed into products and applications in segments where high reliability and mission-critical performance are essential: automobiles, aerospace, mass transit, electronics, protective gear, footwear, medical products, and much more.

With unrivaled technical support, we foster successful customer relationships through a dedication to technical know-how, application expertise, and global support.

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bisco® TRUSTED TO THE EXTREME

ARLON® ENGINEERED FOR YOU

DSP® QUICK SILICONE SOLUTIONS

DeWAL® SHEER QUALITY

poron® COMFORT

KUSHON®

HeatSORB

GRISWOLD ADVANCING PERFORMANCE

For further information on Rogers' portfolio of elastomeric material solutions, please contact the Rogers' facility closest to you or visit rogerscorp.com.

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PORON® Polyurethane Materials are the unrivaled long-lasting solution for product designers and engineers addressing mission-critical sealing, shock, and vibration challenges.

KEY BENEFITS

- **Resistance to Stress Relaxation and Compression Set**
  Durable, long-term performance for gasketing, sealing and cushioning.
- **Energy Absorption**
  High resiliency, good vibration isolation and impact absorption.
- **Low Outgassing**
  No plasticizers to migrate, non-corrosive to metal, environmentally safe and clean.
- **Broad Temperature Range**
  Reliable performance from -40ºC to 90ºC.
- **Chemical Resistance**
  Information is available on material exposure to acids, bases, organic fluids, automotive fluids, and household fluids.
- **Flame Retardant**
  Many of the materials meet flammability requirements of UL HBF and MVSS 302.
- **Easy to Fabricate**
  Die cuts cleanly and readily accepts adhesive without surface preparation.
- **Product Consistency**
  Quality manufacturing resulting in reliable, consistent material properties.
- **Broad Product Offering**
  Wide range of firmness, density, thickness, and color options available.
- **Quality Service**
  All products are supported by knowledgeable Rogers Sales and Applications Engineers, Technical Service and Customer Service Representatives.

MATERIAL SAMPLES
PORON® POLYURETHANE FOAMS

Core Standard Products

4701-15
Soft Seal

4790-92
Extra Soft
Slow Rebound

4790-79
Shock Seal®

4701-30
Very Soft

4701-37
AquaPro®
Very Soft

4701-40
Soft

4701-41
AquaPro®
Soft, Enhanced Sealability

4701-50
Firm

4701-60
Very Firm

Value-Added Capabilities

Dura-Shape®
materials

PET
Supported

ThinStik®
materials

PRODUCT DATA

Core Standard Products

Product	4701-30 Unsupported			4701-30 Supported		4701-40 Unsupported			4701-40 Supported
Physical Properties									
Density, kg/m³ (lb./ft³) ASTM D 3574-95, Test A	240 (15)	320 (20)	400 (25)	320 (20)	400 (25)	240 (15)	320 (20)	480 (30)	320 (20)
Tolerance, %	± 10			± 10		± 10			± 10
Thickness, mm (in)	4.78 - 12.70 (0.188 - 0.500)	1.57 - 3.18 (0.062 - 0.125)	0.79 - 1.14 (0.031 - 0.045)	0.79 - 2.36 (0.031 - 0.095)	0.53 - 1.19 (0.021 - 0.047)	3.18 - 12.70 (0.125 - 0.500)	1.57 - 3.18 (0.062 - 0.125)	0.79 - 1.14 (0.031 - 0.045)	3.18 (0.125)
Tolerance, %	± 10	± 10	± 15	± 10	± 15	± 10	± 10	± 20	±10
Standard Color (Code)	Black (04)			Black (04)		Black (04)			Black (04)
Compression Force Deflection, kPa (psi) 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	7-35 (1-5)	21-55 (3.8)	35-83 (5-12)	21 - 55 (3 - 8)	35 - 83 (5 - 12)	27-76 (4-11)	48-90 (7-13)	104-276 (15-40)	48 - 90 (7 - 13)
Typical kPa, (psi)	21 (3)	35 (5)	62 (9)	34 (5.0)	58 (8.4)	41 (5)	76 (11)	173 (25)	76 (11)
Compression Force Deflection, kPa (psi) ISO 6916-1, 30mm/min Strain Rate Force Measured @ 25% Deflection	24 (4)	50 (7)	69 (10)	41 (6)	NA	42 (6)	85 (12)	225 (33)	85 (12)
Compression Set, % max. ASTM D 3574-95 Test D @ 23°C (73°F) ASTM D 3574-95 Test D @ 70°C (158°F) ASTM D 3574-95 Test J/Test D autoclave 5 hrs @ 121°C (250°F)	2 10 5			4 10 NA		5 10 5			5 10 NA
ISO 1856 Test A @ 70°C (158°F)	0.7	1.2	1.5	1.9	NA	0.7	1.4	2.4	1.4
Dimensional Stability, % max. change 22hrs @ 80°C (176°F) in a forced-air oven	± 1			NA		± 1			NA
Tensile Strength, min kPa (psi) ASTM D 3574-75 Test E	138 (20)	207 (30)	242 (35)	NA		276 (40)	518 (75)	829 (120)	NA
Tensile Elongation, % min., ASTM D 3574-75 Test E	100			NA		100			NA
Tear Strength, kN/m (pli), min. ASTM D 264-91 Die C Typical kN/m (pli)	0.2 (1) 0.9 (5)	0.5 (3) 1.2 (7)	0.7 (4) 1.8 (10)	NA		0.5 (3) 1.6 (9)	0.9 (5) 2.1 (12)	2.1 (12) 3.0 (17)	NA
Temperature Resistance									
Recommended Constant Use, max. SAE J-2236	90°C (194°F)			90°C (194°F)		90°C (194°F)			90°C (194°F)
Recommended Intermittent Use, max	121°C (250°F)			121°C (250°F)		121°C (250°F)			121°C (250°F)
Embrittlement ASTM D 746-98	-51°C (-60°F)			-51°C (-60°F)		-40°C (-40°F)			- 40°C (-40°F)
Cold Flexibility MIL-P 12420D 1991@ -40°C (-40°F)	PASS			PASS		PASS			PASS
Flammability									
Flammability, mm (in) UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	4.8 (0.188) 4.8 (0.188) 4.8 (0.188)	2.4 (0.093) 1.6 (0.062) 2.4 (0.093)	NA 1.6 (0.062) NA	1.5 (0.059) NA NA	NA NA NA	4.8 (0.188) 4.8 (0.188) 4.8 (0.188)	1.6 (0.062) 1.6 (0.062) 1.6 (0.062)	NA NA NA	NA NA NA
Environmental									
Gasketing and Sealing UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91	File MH15464 File 188149			File MH15464 NA		File MH15464 File 188149		NA NA	File MH15464 NA

Product	4701-50 Unsupported			4701-50 Supported	4701-60 Unsupported			4701-15 Soft Seal Supported		
Physical Properties										
Density, kg/m³ (lb./ft³) ASTM D 3574-95, Test A	240 (15)	320 (20)	480 (30)	480 (30)	240 (15)	320 (20)	400 (25)	104 (6.5)		
Tolerance, %	± 10			± 10	± 10			16 (±1)		
Thickness, mm (in)	4.78 - 12.70 (0.188 - 0.500)	1.57 - 3.18 (0.062 - 0.125)	0.79 - 1.14 (0.031 - 0.045)	0.30 (0.012)	3.18 - 6.35 (0.125 - 0.250)	1.57 - 4.78 (0.031 - 0.188)	0.79 - 2.36 (0.031 - 0.093)	0.53 (0.021)	0.75 (0.030)	1.00 (0.039)
Tolerance, %	± 10	± 10	± 20	0.08 (±0.003)	± 10	± 10	± 20	0.10 (±0.004)		
Standard Color (Code)	Black (04)			Black (04)	Black (04)			Gray (90)		
Compression Force Deflection, kPa (psi) 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	55-97 (8-14)	90-159 (13-23)	207-415 (30-60)	103 - 310 (15 - 45)	124-345 (18-50)	172-586 (25-85)	345-896 (50-130)	1.38-5.86 (0.20-0.85)		
Typical kPa, (psi)	69 (10)	117 (17)	269 (39)	221 (32)	249 (36)	428 (62)	643 (93)	NA	NA	NA
Compression Force Deflection, kPa (psi) ISO 6916-1, 30mm/min Strain Rate Force Measured @ 25% Deflection	66 (10)	128 (19)	273 (40)	273 (40)	231 (34)	538 (78)	783 (114)	NA	NA	NA
Compression Set, % max. ASTM D 3574-95 Test D @ 23°C (73°F) ASTM D 3574-95 Test D @ 70°C (158°F) ASTM D 3574-95 Test J/Test D autoclave 5 hrs @ 121°C (250°F)	5 10 5			5 10 NA	5 10 10			5 10 5		
ISO 1856 Test A @ 70°C (158°F)	0.8	2.2	2	2	7.9	6.9	4.7	NA	NA	NA
Dimensional Stability, % max. change 22hrs @ 80°C (176°F) in a forced-air oven	± 1			NA	± 5			NA		
Tensile Strength, min kPa (psi) ASTM D 3574-75 Test E	482 (70)	829 (120)	1382 (200)	NA	931 (135)	1382 (200)	1724 (250)	NA		
Tensile Elongation, % min., ASTM D 3574-75 Test E	100		90	NA	50	45	50	NA		
Tear Strength, kN/m (pli), min. ASTM D 264-91 Die C Typical kN/m (pli)	1.1 (6) 2.1 (12)	1.8 (10) 2.8 (16)	2.3 (13) 4.2 (24)	NA	2.1 (12) 3.3 (19)	3.0 (17) 4.4 (25)	3.3 (19) 5.3 (30)	NA		
Temperature Resistance										
Recommended Constant Use, max. SAE J-2236	90°C (194°F)			90°C (194°F)	90°C (194°F)			90°C (194°F)		
Recommended Intermittent Use, max	121°C (250°F)			121°C (250°F)	121°C (250°F)			121°C (250°F)		
Embrittlement ASTM D 746-98	-40°C (-40°F)			- 40°C (-40°F)	-16°C (-3°F)			NA		
Cold Flexibility MIL-P 12420D 1991@ -40°C (-40°F)	PASS			PASS	PASS			NA		
Flammability										
Flammability, mm (in) UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	4.8 (0.188) 4.8 (0.188) 4.8 (0.188)	1.6 (0.062) 1.6 (0.062) 1.6 (0.062)	NA 1.1 (0.045) NA	NA NA NA	3.18 (0.125) 3.18 (0.125) 3.18 (0.125)	1.6 (0.062) 1.6 (0.062) 1.6 (0.062)	NA 1.6 (0.062) NA	NA NA NA		
Environmental										
Gasketing and Sealing UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91	File MH15464 File 188149			File MH15464 NA	File MH15464 File 188149			File MH15464 NA		

Energy Management Products

Product	4790-79 ShockSeal® Unsupported			4790-79 ShockSeal® Supported		4790-92 Unsupported		4790-92 Supported					
Physical Properties													
Density, kg/m³ (lb./ft³) ASTM D 3574-95, Test A	192 (12)	240 (15)	320 (20)	144 (9)	192 (12)	192 (12)	240 (15)	144 (9)	192 (12)	240 (15)	320 (20)	400 (25)	480 (30)
Tolerance, %	± 10			±10		± 10		± 10					
Thickness, mm (in)	2.03 - 9.53 (0.080 - 0.375)	3.18 - 12.70 (0.125 - 0.500)	1.57 - 4.78 (0.062 - 0.188)	0.53 - 1.0 (0.021 - 0.039)	0.53 - 1.0 (0.021 - 0.039)	3.18 - 10.80 (0.125 - 0.425)	3.18 - 12.70 (0.125 - 0.500)	0.50 - 1.00 (0.020 - 0.039)	0.50 - 1.00 (0.020 - 0.059)	3.05 (0.120)	2.06 (0.081)	0.53 - 1.04 (0.021 - 0.041)	0.30 (0.012)
Tolerance, %	± 10			0.10 (±0.004)		± 10		0.10 (±0.0039)	± 10	± 10	± 10	± 10	± 15
Standard Color (Code)	Black (04)			Black (04)		Black (04)		Black (04)					
Compression Force Deflection, kPa (psi) 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	7 - 35 (1 - 5)	14 - 69 (2 - 10)	28 - 110 (4 - 16)	3.4 - 24 (0.5 - 3.5)	7 - 35 (1 - 5)	1.7 - 17 (0.25 - 2.5)	2 - 24 (0.3 - 3.5)	1.7 - 9.3 (0.25 - 1.35)	2 - 17 (0.25 - 2.5)	2 - 24 (0.3 - 3.5)	7 - 35 (1 - 5)	8 - 58 (1.25 - 8.5)	16 - 94 (2.4 - 13.6)
Typical kPa, (psi)	NA	NA	NA	13.7 (2)	20.7 (3)	NA	NA	NA	NA	12 (1.7)	22 (3.2)	37 (5.3)	NA
Compression Force Deflection, kPa (psi) ISO 6916-1, 30mm/min Strain Rate Force Measured @ 25% Deflection	NA	NA	NA	NA	NA	NA	14 (2)	NA	NA	16 (2)	22 (3)	NA	NA
Compression Set, % max. ASTM D 3574-95 Test D @ 23°C (73°F) ASTM D 3574-95 Test D @ 70°C (158°F) ASTM D 3574-95 Test J/Test D autoclave 5 hrs @ 121°C (250°F)	5 10 NA			5 10 NA	2 10 NA	2 10 5		5 10 NA	2 10 NA				
ISO 1856 Test A @ 70°C (158°F)	NA			NA	NA	NA	0.7	NA	NA	0.4	0.8	NA	NA
Dimensional Stability, % max. change 22hrs @ 80°C (176°F) in a forced-air oven	NA	NA	NA	NA		± 3	± 5	NA					
Tensile Strength, min kPa (psi) ASTM D 3574-75 Test E	207 (30)	414 (60)	689 (100)	NA		83 (12)	103 (15)	NA					
Tensile Elongation, % min., ASTM D 3574-75 Test E	145			NA		150	120	NA					
Tear Strength, kN/m (pli), min. ASTM D 264-91 Die C Typical kN/m (pli)	0.9 (5) NA	1.1 (6) NA	1.8 (10) NA	NA		0.4 (2) NA	0.53 (3) NA	NA					
Temperature Resistance													
Recommended Constant Use, max. SAE J-2236	90°C (194°F)			90°C (194°F)		90°C (194°F)		90°C (194°F)					
Recommended Intermittent Use, max	121°C (250°F)			121°C (250°F)		121°C (250°F)		121°C (250°F)					
Embrittlement ASTM D 746-98	NA	NA	NA	-47°C (-53°F)	-37°C (-35°F)	-20°C (-4°F)		NA	NA	-20°C (-4°F)	-18°C (-0°F)	-12°C (10°F)	NA
Cold Flexibility MIL-P 12420D 1991@ -40°C (-40°F)	NA	NA	NA	NA		NA		NA					
Flammability													
Flammability, mm (in) UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	4.78 (0.188) 6.35 (0.250) NA	2.03 (0.080) 3.18 (0.125) NA	1.57 (0.062) 1.57 (0.062) NA	NA NA NA	NA NA NA	3.94 (0.155) 3.94 (0.155) 3.94 (0.155)	3.00 (0.118) 3.00 (0.118) 3.00 (0.118)	NA NA NA	NA NA NA	3.05 (1.20) NA NA	2.0 (0.081) 2.0 (0.081) NA	NA NA NA	NA NA NA
Environmental													
Gasketing and Sealing UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91	File MH15464 NA			NA NA	File MH15464 NA	File MH15464 NA	File MH15464 NA	File MH15464 NA					NA

Water Sealing Products

Product	AquaPro® 4701-37		AquaPro® 4701-41		
Physical Properties					
Density, kg/m³ (lb./ft³) ASTM D 3574-95, Test A	224 (14)	304 (19)	240 (15)	320 (20)	480 (30)
Tolerance, %	2 (±32)		± 10		
Thickness, mm (in)	1.5 - 12.7 (0.059 - 0.500)	0.50 - 1.0 (0.020 - 0.039)	4.78 - 12.70 (0.188 - 0.500)	1.57 - 3.18 (0.062 - 0.125)	0.79 - 1.14 (0.031 - 0.045)
Tolerance, %	± 10	± 0.10 (0.0039)	± 10		
Standard Color (Code)	Black (04)		Black (04)		
Compression Force Deflection, kPa (psi) 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection	24 - 59 (3.5 - 8.5)	41 - 110 (6 - 16)	41 - 83 (6 -12)	76 - 138 (11 - 20)	138 - 317 (20 - 46)
Typical kPa, (psi)	NA	NA	64 (9.3)	103 (15)	193 (28)
Compression Force Deflection, kPa (psi) ISO 6916-1, 30mm/min Strain Rate Force Measured @ 25% Deflection	38 (5)	NA	57 (8)	97 (14)	247 (36)
Compression Set, % max. ASTM D 3574-95 Test D @ 23°C (73°F) ASTM D 3574-95 Test D @ 70°C (158°F) ASTM D 3574-95 Test J/Test D autoclave 5 hrs @ 121°C (250°F)	NA 10 NA	NA 10 NA	5 10 5		
ISO 1856 Test A @ 70°C (158°F)	1.5	NA	1.7	1.5	2.5
Dimensional Stability, % max. change 22hrs @ 80°C (176°F) in a forced-air oven	NA	NA	±2		
Tensile Strength, min kPa (psi) ASTM D 3574-75 Test E	248 (36)	NA	276 (40)	517 (75)	827 (120)
Tensile Elongation, % min., ASTM D 3574-75 Test E	150	NA	100		
Tear Strength, kN/m (pli), min. ASTM D 264-91 Die C Typical kN/m (pli)	0.96 - (5.5) NA	NA NA	1.1 (6) 1.8 (10)	1.4 (8) 2.3 (13)	2.6 (15) 3.2 (18)
Temperature Resistance					
Recommended Constant Use, max. SAE J-2236	90°C (194°F)		90°C (194°F)		
Recommended Intermittent Use, max	121°C (250°F)		121°C (250°F)		
Embrittlement ASTM D 746-98	-42°C (-44°F)	NA	NA		
Cold Flexibility MIL-P 12420D 1991@ -40°C (-40°F)	PASS	NA	PASS		
Flammability					
Flammability, mm (in) UL 94HBF (File E20305) (Pass ≥) MVSS 302 (Pass ≥) CSA Comp HBF (File 188149) (Pass ≥)	3.00 (0.118) 3.00 (0.118) 3.00 (0.118)	NA NA NA	4.8 (0.188) NA NA		
Environmental					
Gasketing and Sealing UL JMST2 (Consisting of UL50 & UL508) CAN/CSA-C22.2 No. 94-M91	File MH15464 NA	NA NA	File MH15464 File 188149		

Supporting Material - Clear Polyester Film (PET)

Property	Coefficient of Friction A/B, (Kinetic)	Density, kg /m³ (lb. / ft³)	Modules, MD, kPa (psi)	Shrinkage, MD, %, (TD)	Tensile Strength, MD, kPa (psi)	Ultimate Elongation	Yield Strength (F5), kPa (psi)
Test Method	ASTM D 1894	ASTM D 1505	ASTM D 882	39 min. at 150°C	ASTM D 882	ASTM D 882	ASTM D 882
Value	0.4	1.395 (87.1)	$3.5x10^6$ (500,000)	1.2 (0.0)	$2.1x10^5$ (30,000)	150	$1.0x10^5$ (15,000)

DESIGN TOOLS

Product Properties Guide

The Product Properties Guide filters PORON® product information by various criteria, providing several material options based on your application requirements.

Filters
// Groups: Basic Physical Properties
// Sort by Specific Property (Primary): Compression Force Deflection Typical Value
// Sort by Specific Property (Secondary): Product Name
// 20 to 75 Range

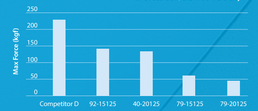
	Results						
Product	**4701-30-15**	**4790-79-12**	**Condux Plus™ Foam - 0.53 mm**	**4790-92-20**	**4701-70-11**	**4701-70-13**	**4701-30-20**
Physical Properties							
Thickness (Min) (mm)	4.78	2.03	0.53	2.06	12.50	12.50	1.57
Thickness (Max) (mm)	12.70	9.53	N/A	N/A	25.00	25.00	3.18
Thickness Tolerance (%)	+/-10 %	+/-10 %	+/-15 %	+/-10 %	+/-10 %	+/-10 %	+/-10 %
Density ASTM D 3574 Test A (kg/m³)	240	192	N/A	320	168	208	320
Color	Black	Black	Metallic / Black	Black	Pink	Blue	Black
Compression Force Deflection Typical Value @ 25 % (kPa)	21.0	21.0	21.0	22.0	28.0	34.0	35.0
Compression Set (70°C) Max.Value ASTM D 3574 Test D (%)	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Tensile Elongation % Typical Value ASTM D 3574 (%)	161	> 145	N/A	N/A	295	360	154

http://tools.rogerscorp.com/ems/products/poron-properties/index.aspx

Impact Prediction Tool

This tool was developed to help you choose the best PORON® Polyurethane or BISCO® Silicone material for energy absorbing applications.

Impact Performance Comparison
// Brass Ball, 5.5 m/s Velocity

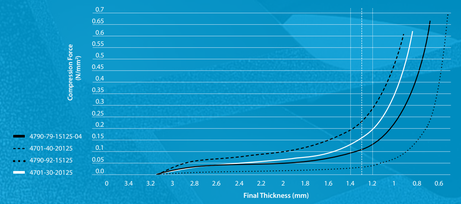


https://www.rogerscorp.com/ems/tools/impactprediction/index.aspx

Gap Filling Tool

The Gap Filling Tool will assist you in choosing the proper PORON® material to meet gap thickness requirements.

PORON® CFD Graph
// 1.30 mm Final Gap Thickness
// 20 mm² Gasket Surface Area
// 0.1 mm Gap Tolerance

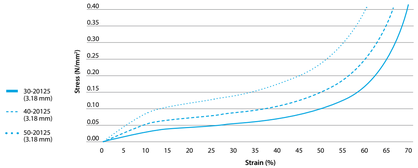


http://tools.rogerscorp.com/ems/gapfilling/index.aspx

Compression Force Deflection (CFD) Tool

Using stress-strain data, the CFD Curve Tool helps in the identification of the PORON® material(s) that meet your engineering requirements.

CFD Data Curve
// 1.5 to 4.75 mm Thickness
// 0.60 N/mm² Maximum Stress



http://tools.rogerscorp.com/ems/cfdcurve/index.aspx

Elastomeric Material Solutions Application Design Tool

The Elastomeric Material Solutions Application Design Tool assists in the identification of PORON® Polyurethane and BISCO® Silicone materials that best meet your design requirements and provides material options based upon your application requirements.

PORON® Polyurethanes
// PORON® 4701-40
// PORON® AquaPro™ 4701-41
// PORON® Dura-Shape® Foams
// PORON® ShockSeal™ Materials
// PORON® V-0 Foam

BISCO® Silicones
// BISCO® HT-800
// BISCO® L3XX-20
// BISCO® RS-720
// BISCO® RS-750
// BISCO® 7330
// BISCO® HT-350

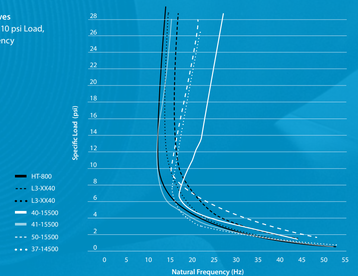
Configuration
// Application: Sealing & Gasketing
// 5.1 - 15.0 mm Thickness
// Medium Compressibility

http://tools.rogerscorp.com/ems/products/msg/index.aspx

Vibration Isolation Tool

The Vibration Isolation Tool recommends the proper PORON® polyurethane and BISCO® silicone materials for your vibration mitigation applications. This tool uses your system specifications to calculate the isolation efficiency of Rogers' materials, and provides the most effective material option.

Natural Frequency Curves
// 0.50 in Pad Thickness, 10 psi Load,
// 100 Hz Forcing Frequency



	BISCO® Silicones			PORON® Polyurethanes			
Product	**HT-800**	**L3-XX40**	**L3-XX40**	**40-15500**	**41-15500**	**50-15500**	**37-14500**
Thickness (in)	0.500	0.472	0.630	0.500	0.500	0.500	0.500
Isolation Efficiency (%)	> 97.00	> 94.00	> 94.00	> 97.00	> 96.00	> 95.00	> 94.00
Natural Frequency (Hz)	12	17	15	19	12	16	16

http://tools.rogerscorp.com/ems/vibration/index.aspx

APPLICATIONS

Environmental Seals

Protective Cases

Water Sealing

Spacers

Motor Mounts

Cushioning

Vibration Isolation

Springs

Gaskets

EMI / RFI Shielding

Sound Damping

Gap Filling

Light Blocking

and more …

Car Lights
Water Sealing,
Light Blocking

Appliance Foot Pads
Spacing, Cushioning

For more information
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Smartphone Protective Case
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