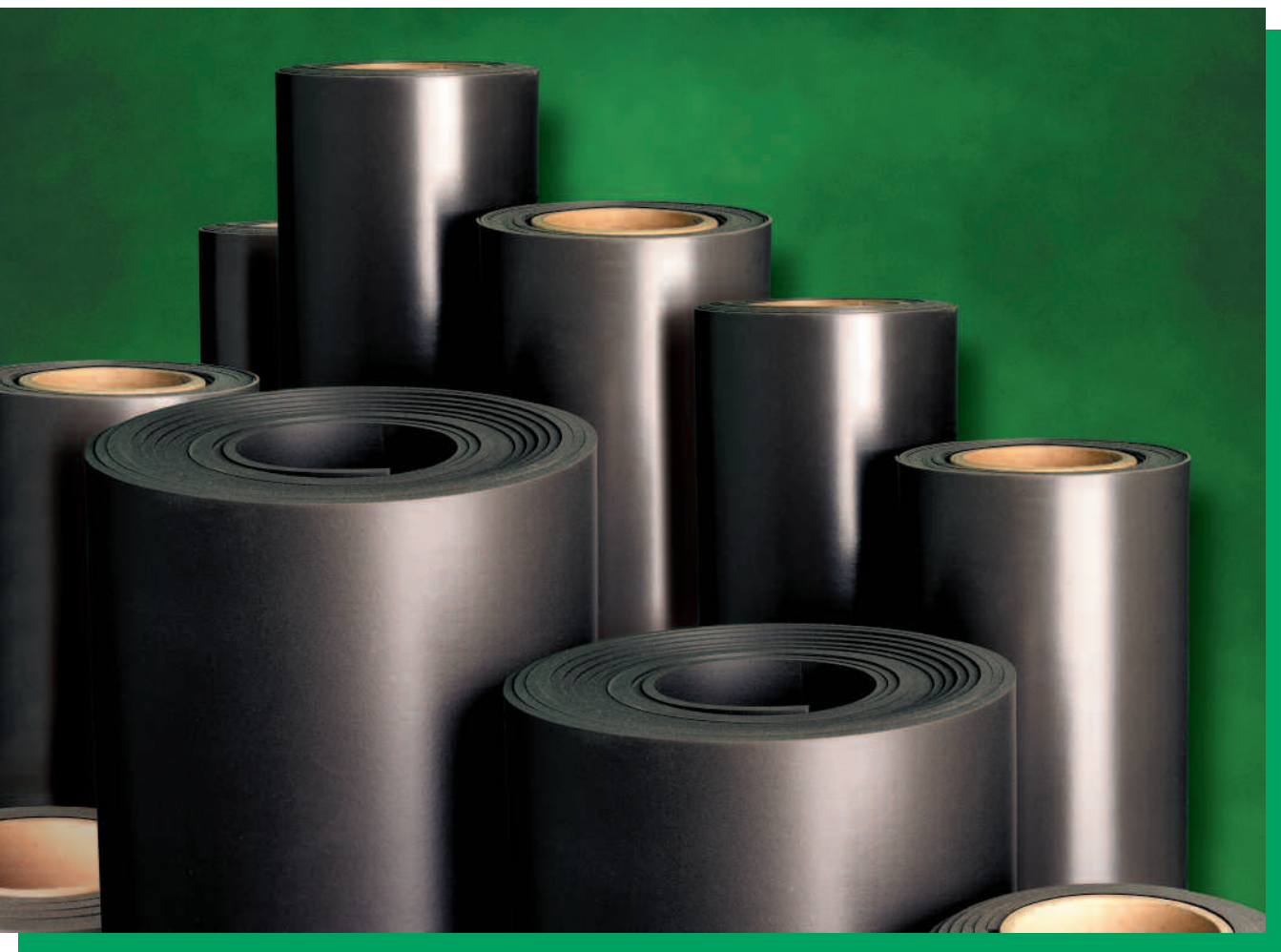




PORON® Urethane Foams

Material Selection Guide





Markets

Communications

Computers

Transportation

Electronics

Appliances

Medical Devices

Industrial



Applications

LCD Gaskets

Battery Pressure Pads

Speaker Gaskets

Environmental Seals

Spacers

Motor Mounts

Vibration Isolation Gaskets

Springs

Instrument Cluster Gaskets

Cup Holders Tabs

Air Filter Gaskets

Appliance Foot Pads

EMI/RFI Shielding



The world runs better with Rogers.®

PORON® Microcellular Urethane foams offer a broad range of design solutions for gasketing, sealing and energy absorption. PORON materials are part of the Rogers High Performance Foams family of products, which also include BISCO® Silicones.

Excellent Compression-set Resistance

Durable, long-term performance for gasketing, sealing, and cushioning

Energy Absorption

High resiliency, good vibration isolation and impact attenuation

Low Outgassing

No plasticizers to migrate, non-corrosive to metal, environmentally safe and clean

Broad Temperature Range

Excellent performance from -40°C to 90°C

Flame Retardant

Many of the materials meet flammability requirements of UL HBF and MVSS 302

Good Chemical Resistance

Information is available on material exposure to acids, bases, organic fluids and automotive & household fluids

Easy to Fabricate

Die-cuts cleanly and readily accepts adhesive without surface preparation

Product Consistency

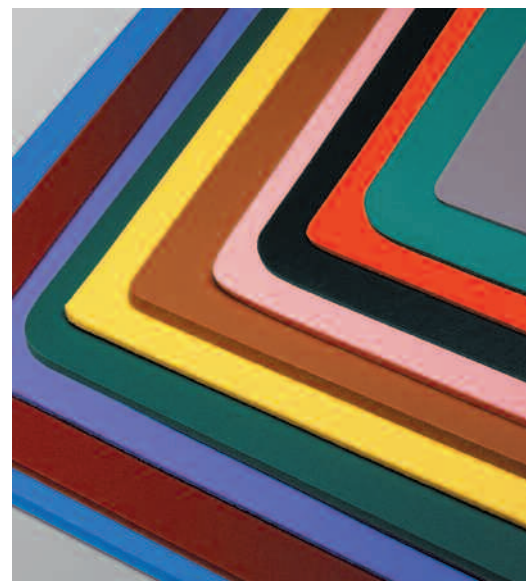
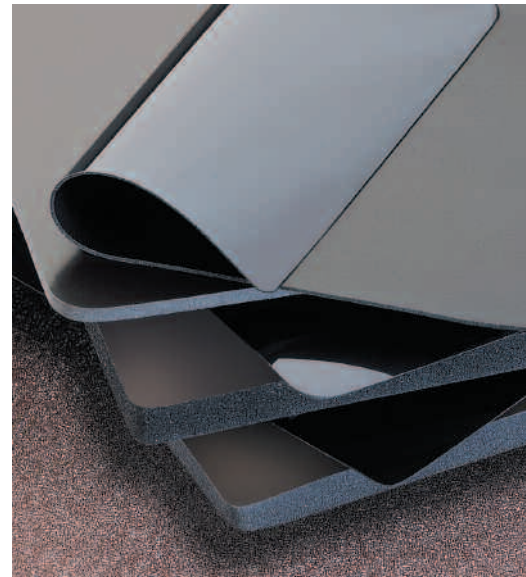
Quality manufacturing, material cast to tight tolerances and precise variations of density

Broad Product Offering

Wide range of firmness, density, thickness, and color options available

Quality Service

All products are supported by knowledgeable Rogers Sales Engineers, Technical Service, and Customer Service Representatives



Typical Physical Properties										Electrical & Thermal									
Density, lb./ft ³ (kg / m ³), Tolerance, % <i>ASTM D 3574-95 Test A</i>	Compression Force Deflection, Range psi (kPa), Typical psi (kPa) @ 25% Deflection	Hardness, Durometer, Shore "O", Shore "A" <i>ASTM D 2240-97</i>	Compression Set, % max, <i>ASTM D 3574-95 Test D @ 73 F (23°C)</i>	Compression Set, % max, <i>Test J / Test D after autoclaved 5 hrs. @ 158 F (70°C)</i>	Dimensional Stability, % max, <i>ASTM D 3574-95 22 hrs. @ 176 F (80°C) in a forced-air oven</i>	Tensile Strength, Min, psi (kPa), Typical psi (kPa) <i>ASTM D 3574-95 Test E</i>	Tear Strength, Min, pli (kN/m), Typical pli (kN/m) @ 72 F (22°C) Die C	Dielectric Constant, K'(DK), <i>ASTM D 150 measurements @ 72 F (22°C) relative humidity 50% for 24 hours.</i>	Dielectric Strength, volts/mil, <i>ASTM D 149-97a</i>	Dissipation Factor, tan D ("DF"), <i>ASTM D 150-98</i>	Volume Resistivity, ohm-cm, <i>ASTM D 257-99</i>	Surface Resistivity, ohm/sq., <i>ASTM D 257-99</i>	Thermal Conductivity, W/m-C (BTU-in/hr-ft ² -F) <i>ASTM C 518-98</i>	Coefficient of Thermal Expansion in./in./°C					
12 (192) ± 10	0.25-2.5 (1.7-17) 1.4 (10)	-	2	10	5 ± 3	12 (83)	150	2 (0.4)	-	42	-	-	-	2.3-3.1 x 10 ⁻⁴					
15 (240) ± 10	0.3-3.5 (2-24) 2 (14)	2	2	10	5 ± 5	15 (103) 30 (207)	120 206	4 (0.7) 5 (0.9)	1.48	50	0.04	8 x 10 ¹¹	10 x 10 ¹¹	0.083 (0.58)	2.8-3.1 x 10 ⁻⁴				
15 (240) ± 10	1-5 (7-35) 3 (21)	^ 3 ^ 3				20 (138) 30 (207)	100 160	1 (0.2) 5 (0.9)				-							
20 (320) ± 10	3-8 (21-55) 5 (35)	8 5	2	10	5 ± 1	30 (207) 50 (346)	100 155	3 (0.5) 7 (1.2)	1.75	50	0.05	3 x 10 ¹¹	6 x 10 ¹¹	0.076 (0.53)	2.3-3.1 x 10 ⁻⁴				
25 (400) ± 10	5-12 (35-83) 9 (62)	16 12				35 (242) 70 (484)	100 150	4 (0.7) 10 (1.8)				-							
15 (240) ± 10	4-8 (27-55) 6 (41)	12 8				40 (276) 70 (484)	100 160	3 (0.5) 9 (1.6)				-							
20 (320) ± 10	7-13 (48-90) 11 (76)	17 12	5	10	5 ± 1	75 (518) 95 (657)	100 155	5 (0.9) 12 (2.1)	1.71	50	0.05	1 x 10 ¹²	2 x 10 ¹²	0.086 (0.60)	2.3-3.1 x 10 ⁻⁴				
30* (480) ± 10	15-40 (104-276) 25 (173)	34 25				120 (829) 170 (1175)	100 145	12 (2.1) 17 (3.0)				-							
15 (240) ± 10	8-14 (55-97) 10 (69)	18 13				80 (553) 95 (657)	100 140	6 (1.1) 12 (2.1)				-							
20 (320) ± 10	13-23 (90-159) 17 (117)	24 18	5	10	5 ± 1	120 (829) 145 (1003)	100 135	10 (1.8) 16 (2.8)	1.63	50	0.05	2 x 10 ¹²	7 x 10 ¹²	0.090 (0.63)	2.3-3.1 x 10 ⁻⁴				
30 (480) ± 10	30-60 (207-415) 39 (269)	55 42				200 (1382) 250 (1729)	90 130	13 (2.3) 24 (4.2)				-							
15 (240) ± 10	18-50 (124-345) 36 (249)	42 30				135 (931) 170 (1175)	50 75	12 (2.1) 19 (3.3)				-							
20 (320) ± 10	35-85 (241-586) 62 (428)	55 42	5	10	10 ± 5	200 (1382) 275 (1901)	45 75	17 (3.0) 25 (4.4)	1.60	50	0.05	7 x 10 ¹²	3 x 10 ¹²	0.088 (0.61)	2.3-3.1 x 10 ⁻⁴				
25 (400) ± 10	50-130 (345-896) 93 (643)	63 53				250 (1724) 380 (2627)	50 75	19 (3.3) 30 (5.3)				-							

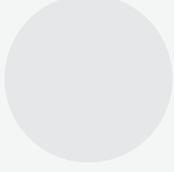
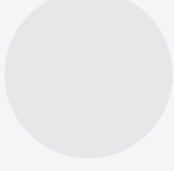
Testing Methods Appear in Green

Notes: All metric conversions are approximate. Additional technical services are available.
- Indicates data not available.

		Temperature Resistance				Flammability & Outgassing				Environmental					Avail.																																										
		Temperature Resistance, Recommended Constant Use, max., <i>SAE J-2236</i>				Temperature Resistance, Recommended Intermittent Use, max. <i>ASTM D 746-98</i>				Temperature Resistance, Embrittlement <i>MIL-P-12420 D 1991 @ -40°F (-40°C)</i>				Flame Resistance, UL HBF (File E20305) <i>Pass, ≥, Acceptance HBF (File 188149) (Pass≥)</i>				Fogging, SAE J-1756 3 hrs @ 212°F (100°C) <i>ASTM E 595-93 24 hrs. @ 257°F (125°C)</i>				Outgassing, Total Mass Loss, (TML), % (CvCv), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Collected Volatile Condensable Materials <i>ASTM E 595 24 hrs. @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Water Vapor Regain (WVR), % <i>UL JMST2 (Consisting of UL50 and UL508), % weight gain, typical, AMS 3568-95</i>				Water Absorption, High Humidity Exposure, % weight gain, typical, <i>AMS 3568-95</i>				UV Resistance, Immersion Testing, <i>ASTM D 570-95</i>				Ozone Resistance, <i>ASTM G 53-96</i>				Corrosion Resistance, <i>GM 4486P-95</i>				Thickness, inches (mm)				Standard Color (Code)			
		Temperature Resistance, Recommended Constant Use, max., <i>SAE J-2236</i>				Temperature Resistance, Recommended Intermittent Use, max. <i>ASTM D 746-98</i>				Temperature Resistance, Embrittlement <i>MIL-P-12420 D 1991 @ -40°F (-40°C)</i>				Flame Resistance, UL HBF (File E20305) <i>Pass, ≥, Acceptance HBF (File 188149) (Pass≥)</i>				Fogging, SAE J-1756 3 hrs @ 212°F (100°C) <i>ASTM E 595-93 24 hrs. @ 257°F (125°C)</i>				Outgassing, Total Mass Loss, (TML), % (CvCv), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Collected Volatile Condensable Materials <i>ASTM E 595 24 hrs. @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Water Vapor Regain (WVR), % <i>UL JMST2 (Consisting of UL50 and UL508), % weight gain, typical, AMS 3568-95</i>				Water Absorption, High Humidity Exposure, % weight gain, typical, <i>AMS 3568-95</i>				UV Resistance, Immersion Testing, <i>ASTM D 570-95</i>				Ozone Resistance, <i>ASTM G 53-96</i>				Corrosion Resistance, <i>GM 4486P-95</i>				Thickness, inches (mm)				Standard Color (Code)			
		Temperature Resistance, Recommended Constant Use, max., <i>SAE J-2236</i>				Temperature Resistance, Recommended Intermittent Use, max. <i>ASTM D 746-98</i>				Temperature Resistance, Embrittlement <i>MIL-P-12420 D 1991 @ -40°F (-40°C)</i>				Flame Resistance, UL HBF (File E20305) <i>Pass, ≥, Acceptance HBF (File 188149) (Pass≥)</i>				Fogging, SAE J-1756 3 hrs @ 212°F (100°C) <i>ASTM E 595-93 24 hrs. @ 257°F (125°C)</i>				Outgassing, Total Mass Loss, (TML), % (CvCv), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Collected Volatile Condensable Materials <i>ASTM E 595 24 hrs. @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Water Vapor Regain (WVR), % <i>UL JMST2 (Consisting of UL50 and UL508), % weight gain, typical, AMS 3568-95</i>				Water Absorption, High Humidity Exposure, % weight gain, typical, <i>AMS 3568-95</i>				UV Resistance, Immersion Testing, <i>ASTM D 570-95</i>				Ozone Resistance, <i>ASTM G 53-96</i>				Corrosion Resistance, <i>GM 4486P-95</i>				Thickness, inches (mm)				Standard Color (Code)			
		Temperature Resistance, Recommended Constant Use, max., <i>SAE J-2236</i>				Temperature Resistance, Recommended Intermittent Use, max. <i>ASTM D 746-98</i>				Temperature Resistance, Embrittlement <i>MIL-P-12420 D 1991 @ -40°F (-40°C)</i>				Flame Resistance, UL HBF (File E20305) <i>Pass, ≥, Acceptance HBF (File 188149) (Pass≥)</i>				Fogging, SAE J-1756 3 hrs @ 212°F (100°C) <i>ASTM E 595-93 24 hrs. @ 257°F (125°C)</i>				Outgassing, Total Mass Loss, (TML), % (CvCv), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Collected Volatile Condensable Materials <i>ASTM E 595 24 hrs. @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Water Vapor Regain (WVR), % <i>UL JMST2 (Consisting of UL50 and UL508), % weight gain, typical, AMS 3568-95</i>				Water Absorption, High Humidity Exposure, % weight gain, typical, <i>AMS 3568-95</i>				UV Resistance, Immersion Testing, <i>ASTM D 570-95</i>				Ozone Resistance, <i>ASTM G 53-96</i>				Corrosion Resistance, <i>GM 4486P-95</i>				Thickness, inches (mm)				Standard Color (Code)			
194°F (90°C)	250°F (121°C)	-4°F (-20°C)	-	0.155 0.155	Pass	0.76	0.04	0.6	-	2	38	-	-	-	0.155-0.425 (3.94 - 10.8) ± 10%	Black (04)	4790-92 Extra Soft-Slow Rebound																																								
194°F (90°C)	250°F (121°C)	-4°F (-20°C)	-	0.118 0.118	Pass	1.73	0.14	0.71	File MH15464	2	34	-	-	-	0.125 - 0.500 (3.18 - 12.70) ± 10%	Black (04)																																									
194°F (90°C)	250°F (121°C)	-60°F (-51°C)	Pass	0.188" 0.188" 0.188"	Pass	0.8	0.1	0.2	File MH15464 File 188149*	2	12	Good	Pass	Pass	0.188 - 0.500 (4.78 - 12.70) ± 10%	Black (04)	4701-30 Very Soft																																								
				0.093" 0.062" 0.093"	Pass	1	0.1	0.3			9		Pass	Pass	0.062 - 0.125 (1.57 - 3.18) ± 10%																																										
				- 0.062" -		1.3	0.2	0.6			14		-		0.031 - 0.045 (0.79 - 1.14) ± 15%																																										
194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.188" 0.188" 0.188"	Pass	0.7	0.04	0.3	File MH15464 File 188149	2	19	Good	Pass	Pass	0.188 - 0.500 (4.78 - 12.70) ± 10%	Black (04)	4701-40 Soft																																								
				0.062" 0.062" 0.062"	Pass	0.8	0.04	0.3			11	Good	Pass	Pass	0.062 - 0.125 (1.57 - 3.18) ± 10%																																										
				- - -	-	1.0	0.05	0.62	-	-	9	-	-	-	0.031 - 0.045 (0.79 - 1.14) ± 20%																																										
194°F (90°C)	250°F (121°C)	-40°F (-40°C)	Pass	0.188" 0.188" 0.188"	Pass	0.6	0.04	0.1	File MH15464 File 188149**	2	13	Good	Pass	Pass	0.188 - 0.500 (4.78 - 12.70) ± 10%	Black (04)	4701-50 Firm																																								
				0.062" 0.062" 0.062"	Pass	0.8	0.05	0.3			8	Good	Pass	Pass	0.062 - 0.125 (1.57 - 3.18) ± 10%																																										
				- 0.045" -		0.9	0.06	0.4			5				0.031 - 0.045 (0.79 - 1.14) ± 20%																																										
158°F (70°C)	250°F (121°C)	3°F (-16°C)	Pass	0.125" 0.125" 0.125"	Pass	0.6	0.05	0.5	File MH15464 File 188149	2	19	Good	Pass	-	0.125 - 0.250 (3.18 - 6.35) ± 10%	Black (04)	4701-60 Very Firm																																								
				0.062" 0.062" 0.062"	Pass	0.7	0.02	0.5			20	Good	Pass	-	0.031 - 0.188 (0.79 - 4.78) ± 10%																																										
				0.062" 0.062" 0.062"		0.7	0.03	0.6			6				0.031 - 0.093 (0.79 - 2.36) ± 15%																																										

Notes: Products exhibit good Mildew/Bacteria Resistance, ASTM G 21-96
Products exhibit no Skin Contact Irritation, Primary Skin Irritation Test (FHSA)
Products exhibit no Staining, ASTM D 925
*Material tested in Azure **Material tested in Gray

Unsupported Products



Typical Physical Properties										Electrical & Thermal						
Density, lb./ft ³ (kg / m ³), <i>ASTM D 3574-95 Test A</i>	Compression Force Deflection, Range psi (kPa), <i>Typical psi (kPa), Measured @ 25% Deflection</i>	Hardness, Durometer, Shore "O", <i>ASTM D 2240-97</i>	Compression Set, % max., <i>ASTM D 3574-95 Test D @ 73°F (23°C)</i>	Compression Set, % max., <i>ASTM D 3574-95 Test J / Test D @ 158°F (70°C)</i>	Dimensional Stability, % max., <i>ASTM D 3574-95 22 hrs. @ 176°F (80°C) in a forced-air oven</i>	Tensile Strength, Min. psi (kPa), <i>ASTM D 3574-75 Test E</i>	Tensile Elongation, %, Min., <i>ASTM D 3574-95 Test E</i>	Tear Strength, Min. pli (kN/m), <i>ASTM D 642-91 Die C</i>	Dielectric Constant, K' (DK'), <i>ASTM D 150 measurements @ 72°F (22°C) relative humidity 50% for 24 hours.</i>	Dielectric Strength, volts/mil, <i>ASTM D 149-97a</i>	Dissipation Factor, tan D ("DF"), <i>ASTM D 150-98</i>	Volume Resistivity, ohm-cm, <i>ASTM D 257-99</i>	Surface Resistivity, ohm/sq., <i>ASTM D 257-99</i>	Thermal Conductivity, W/m-C (BTU-in/hr-ft ² -F), <i>ASTM C 518-98</i>	Coefficient of Thermal Expansion in./in./°C	
15 (240) ± 10	0.3-3.5 (2-24) 1.7 (12)	2											0.083 (0.58)			
20 (320) ± 10	1-5 (7-35) 3.2 (22)	-	2	10	-	-	-	-	1.48	50	0.04	8 x 10 ¹¹	10 x 10 ¹¹	-	2.3-3.1 x 10 ⁻⁴	
25 (400) ± 10	1.25-8.5 (8-58) 5.3 (37)	-											-			
20 (320) ± 10	3-8 (21-55) 5.0 (34)	8											0.076 (0.53)		2.3-3.1 x 10 ⁻⁴	
25 (400) ± 10	5-12 (35-83) 8.4 (58)	16	4	10	-	-	-	-	1.75	50	0.05	3.1 x 10 ¹¹	5.9 x 10 ¹¹	-		
30 (480) ± 10	15-45 (103-310) 32 (221)	55	5	10	-	-	-	-	1.63	50	0.05	2 x 10 ¹²	7 x 10 ¹²	0.090 (0.63)	2.3-3.1 x 10 ⁻⁴	
15 (240) ± 10	5-11 (35-76) 9.3 (64)	11														
20 (320) ± 10	10-17 (69-117) 15 (103)	19	5 ¹	10 ¹	5 ¹	± 2			1.71	50	0.05	1 x 10 ¹²	2 x 10 ¹²	-	2.3-3.1 x 10 ⁻⁴	
30 (480) ± 10	15-40 (103-276) 28 (193)	31														
30 (480) ± 10	15-45 (103-310) 32 (221)	55	5	10	5	± 1			1.63	50	0.05	2 x 10 ¹²	7 x 10 ¹²	0.090 (0.63)	2.3-3.1 x 10 ⁻⁴	

Testing Methods Appear in Green
Notes: 1. Compression Set, % maximum, after 24 hour recovery
2. PORON Microcellular Urethane material is supported by being directly cast onto 2 mil polyester film
All metric conversions are approximate. Additional technical services are available. - Indicates data not available.

Temperature Resistance				Flammability & Outgassing				Environmental				Avail.		PET Film				Supported Products ²																																																														
Temperature Resistance, Constant Use, max. <i>SAE J-2236</i>				Temperature Resistance, Recommended				Temperature Resistance, Embrittlement, <i>ASTM D 746-98 MIL-P-12420D 1991 @ -40°F (-40°C)</i>				Flame Resistance, Cold Flexibility <i>WVSS 302 (Pass, ≥)</i>				Fogging, SAE J-1736 3 hrs @ 212°F (100°C) 12/94				Outgassing, Total Mass Loss (TML), % (CVCM), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ < 7x10⁻³ Pa</i>				Outgassing, Collected Volatile Condensable Materials (WVVR), % <i>ASTM E 595 24 hrs @ 257°F (125°C) @ <7x10⁻³ Pa</i>				Gasketing and Sealing, UL JMST2 (Consisting of UL50 and UL508)				Water Absorption, High Humidity Exposure, % weight gain, typical, <i>AMS 3568-95</i>				UV Resistance, Immersion Testing, % weight gain, <i>ASTM D 570-95</i>				Ozone Resistance, <i>ASTM G 53-96</i>				Corrosion Resistance, <i>GM 4486P-95</i>				Thickness, inches (mm), <i>Tolerance, ±</i>				Standard Color (Code)				Density, g/cm ³ , <i>ASTM D 1505</i>				Tensile Strength MD, psi (kg/cm ²), <i>ASTM D 882</i>				Ultimate Elongation, <i>ASTM D 882</i>				Shrinkage MD, % (TD), 39 min. @ 150°C				Yield Strength (F5), psi (kg/cm ²), <i>ASTM D 882</i>				Coefficient of Friction A/B, (Kinetic), <i>ASTM D 1894</i>				
194°F (90°C)	250°F (121°C)	0°F (-18°C)	-	0.120	1.73	0.14	0.71	-	2	25	-	-	-	0.120 (3.05) ± 10%	Black (04)	1,395	30,000 (2,110)		150	12 (0.0)	15,000 (1,050)	0.40	4790-92 Extra Soft–Slow Rebound																																																									
		-10°F (-12°C)		0.081	1.63	0.29	0.49			23				0.081 (2.06) ± 10%																																																																		
				0.041	1.44	0.27	0.44			14				0.021 - 0.041 (0.53 - 1.04) ± 15%																																																																		
158°F (70°C)	250°F (121°C)	-60°F (-51°C)	Pass	-	Pass	1	0.1	0.3	File MH15464	2	9	Good	Pass	Pass	0.064 - 0.095 (1.63 - 2.36) ± 10%	Black (04)	1,395	30,000 (2,110)	150	12 (0.0)	15,000 (1,050)	0.40	4701-30 Very Soft																																																									
194°F (90°C)					1.3	0.2	0.6			14				0.021 - 0.047 (0.53 - 1.19) ± 15%																																																																		
158°F (70°C)	250°F (121°C)	-40°F (-40°C)	Pass	-	Pass	0.9	0.06	0.43	File MH15464	2	5	Good	Pass	Pass	0.012 (0.30) ± 0.003in	Black (04)	1,395	30,000 (2,110)	150	12 (0.0)	15,000 (1,050)	0.40	4701-50 Firm																																																									
194°F (90°C)	250°F (121°C)	-	Pass	0.197"	0.84	0.05	0.4			19				0.188 - 0.500 (4.78 - 12.7) ± 10%	Black (04)	-	-	-	-	-	-	-	4701-41 Soft – Enhanced Sealability																																																									
				-		0.97	0.04	0.46	File MH15464	3	9	-	-	-	0.062 - 0.125 (1.57 - 3.18) ± 10%																																																																	
					1.0	0.06	0.65			7				0.031 - 0.045 (0.79 - 1.14) ± 20%																																																																		
194°F (90°C)	250° F (121°C)	-40°F (-40°C)	Pass	0.045"	Pass	0.9	0.06	0.43	File MH15464	2	5	Good	Pass	Pass	0.017 - 0.020 (0.43 - 0.50) ± 0.003in	Black (04)	-	-	-	-	-	-	4701-50 Firm–Thin as Cast																																																									

Notes: Products exhibit good Mildew/Bacteria Resistance, ASTM G 21-96
Products exhibit no Skin Contact Irritation, Primary Skin Irritation Test (FHSA)
Products exhibit no Staining, ASTM D 925

Supported Products²

Additional Offerings

World Class Performance

Rogers Corporation (NYSE:ROG), headquartered in Rogers, CT, is a global technology leader in the development and manufacture of high performance, specialty-material-based products for a variety of applications in diverse markets including: portable communications, communications infrastructure, computer and office equipment, consumer products, ground transportation, aerospace and defense. In an ever-changing world, where product design and manufacturing often take place on different sides of the planet, Rogers has the global reach to meet customer needs. Rogers provides the convenience of a worldwide presence and a true understanding of global markets. The world runs better with Rogers.®

High Performance Foams Division

PORON® Urethane Foams

Woodstock, CT, USA

Tel: 860.928.3622

Fax: 860.928.7843

Toll Free: 800.755.6766



The Woodstock, CT Facility
Is Registered to ISO 9001:2000
Certificate No. A-3843

High Performance Foams Division

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